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SEQUENCE LISTING

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ROSENTHAL, ANDRE



<120> HUMAN NUCLEIC ACID SEQUENCES FROM OVARIAN TUMOR TISSUE

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<140> 09/646,778

<141> 2000-09-22

<150> PCT/DE99/01087

<151> 1999-04-07

<150> DE 198 17 557.4

<151> 1998-04-09

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<170> PatentIn Ver. 2.1

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ttgtaaa 1447

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<210> 9

<211> 671

<212> DNA

<213> Homo sapiens

<400> 9

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aacaaggctt ctcataacag gacccgggccc ctgcaaagcc acagctcccc agagggcaag 180
gaggaacctg aaccctatc cccggagctg gaatacattc ccagaaagag gggcaagaac 240
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ccagagggcg catgaagccc aggtctgtgc caaacctac cctgccccac accaaggagc 600
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aaaagtcgac c 671

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<210> 10

<211> 803

<212> DNA

<213> Homo sapiens

<400> 10

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ttgcttgaaa ggaggtcaac aagaacaagg aaatgtataa gctacagatt tgatgagttt 660
gatgaagcaa ttgatgaagc tattgaagat gacatcaaag aagccgatgg aggaggagtt 720
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ttggatgaaa aaataataac ggc 803

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<210> 11

<400> 11
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<210> 12

<211> 828

<212> DNA

<213> Homo sapiens

<400> 12

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tgccgtcccc gctgctgtgc attgggttaa aaacgacaac caacatcagc catgaaagat 180
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gatcttgtgg tcaagagcaa tctgaatcca aatgcaaagg agtttgttcc tggggtgaag 540
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gtgaaggcag tattagaaga cttaattgta aaagctctct tgctactgtg ttacacttat 660
gcattgccaa agtttttgtt agtcttgcac gcttaataaa agtgctgaga cacttggttac 720
ctaagtaaaa agcctggtcc aaaccatttt actgggaaaa taggattggg gccccatggc 780
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<210> 13

<211> 552

<212> DNA

<213> Homo sapiens

<400> 13

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cactagcctt ctgtccctcc cgcagaagac tggtggattg aacaaaataa tatgtatttt 360
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tgatgtacac ttgtattatt aaagcactca ataaatcact gtggctgata actgcaaaaa 480
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cttgtctaatt tc 552

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<210> 14

<400> 14
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<210> 15

<211> 993

<212> DNA

<213> Homo sapiens

<400> 15

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gggttcattt ttttgaatca accacacttc attattttcta ttaagcaatt tgacaggact 180
gttgtagcct gcagtgtagt aaaccttctc atcgaaaact tttccatctt cccttaaaat 240
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ctctttctcg tttttgcctt gaatgtagct gttcagtttc gttaaagccg tctggatggc 540
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```

993

<210> 16

<211> 2273

<212> DNA

<213> Homo sapiens

<400> 16

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ctgcacctta gaaaaaaaaa gaaaaatcaa aaaaacaaaa aaacaaaaac aaaaaaagaa 60
ggaaaatctt ggaggggtggg cgtgggaact caggaccca gagtggcgag tgggtgtggg 120
agggagagcc tctctcccc tttctgtgt gagaggaact cttagtgtct ggtgcagcta 180
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cacatgtgag tctggctggg ctggtatttt gtttgatctt cctggaaatg agcagtgact 1920

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aacgctcaca taactggttt tttttttatc tgggctgatg aatacattta cctaagaaac 1980
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tgcacgggct tgtctcactt acgaaacatg tcggagctgt ttgcctgggt ggggctgggt 2220
accgtacctg tcaatgcctg ggattttcca taaatttagc acgggacata aag          2273

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<210> 17

<400> 17

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<210> 18

<211> 986

<212> DNA

<213> Homo sapiens

<400> 18

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tgatacttg gaactgctaa attattttat tttttacata aggtcactta aatgaaaagc 180
gattaaaaga catctttcct gcattgccat ctacataata tcagatatta cggatgttag 240
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acttgtaact atagaagtga attgtggacg taaaatgggt gtgctatttg gataatggca 360
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aaatattctt tgcagtaaaa tattcccttt gttaatgtta tagaaggggg gatataaaaa 480
ggaactaaca atttgtatgg cagtgtcaga tatttttatt ttagtatttc ctgttttggt 540
ttatttgcac cttagaagag cataatgaca ttgtttgatg aagcctaatt atgctggact 600
gttttgacct ggtttaaccc ttctgatagg tagtttgga tgctggggat gagaactgaa 660
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caacttgtga ttctgtatag aacagacttt acttttctag cccagcattg atctagaagc 780
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tttggaagt agaatttatg ggtacaacgt atgttcatta tttgtacata aaataaaacc 900
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<210> 19

<211> 526

<212> DNA

<213> Homo sapiens

<400> 19

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ggacacacca tcaggagata agacctgtat cttacgtgta agatgaaact tatgcaaaag 120
gcacagaaca aattattttgt tcacagttac ttttaactct ttcagcaatg cctgagtcct 180
ctttatagaa acttcatttt gctaagttag caaccattca tttttttggt tactcttcat 240
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caaacataat ctgaaagact agaggaatcg ccattaattt catttgtgtt tgacaaagcg 360
tcatccaatg gattaaaacc cttccttttg gtggcagtg aacggtatga tacctaaaaa 420
gaaaaaagag ttaatcacct ctctgggata tgaatgctat tagaagtttg ttgacttctc 480
ctaaattgat aattgccttt ctagatctat aatgtagaga gcaaaa          526

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<210> 20

<211> 1765

<212> DNA

<213> Homo sapiens

<400> 20

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ttatttttaa aaaatctcaa aacatgttca aacacattca gtagcaaaga tccaccattg 120
gcacacacat taagaaagca cacacactag gcttctagtt gggctaatta aaatctctat 180
ggctggaaag gtggttggtt gtacttaatt aagctttttt gaagtgcata gctatgcata 240
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aattggatac ttccactgct ttgtcaggta ttcactctgag aacttgacaa tggtttttgc 420
ccgaagatcg tagagaccaa gaggtttaag aagttctgac acatctctcc agtctgcggt 480
tcttgctacc tcagctgaag gatacttctc cagaaacttc caaagcacag gtattgccat 540
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```

1765

<210> 21

<211> 746

<212> DNA

<213> Homo sapiens

<400> 21

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aatacttttag tattcttaac tatgtatgtg ccttctctta cactgagttc ttttttgcct 180
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tctcaaaggt gtccacaaag caaaaaaatc agaccaaatg ctaagagcaa gtaacttata 660
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tgctaaatta ctaaaataat agccgc

```

746

<210> 22
 <211> 659
 <212> DNA
 <213> Homo sapiens

<400> 22
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 gacattgtgg ctagccaacc acatgggtcag cctcaaagtt gagaggctca gtaaccctcc 240
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 tccaattcct gaaaatgaag attgctgaga agcaaagaca aatttgtgtg acccagaaat 600
 tactgccagc caagaggtcc ctggatgccg acctagctgt gctccaaatt cagttttca 659

<210> 23
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 23
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 cgccgcgccc ttctccctgg agtaccgagt cttcctcaaa aatgagaaag gacaatatat 180
 atctccattt catgatattc caatttatgc agataaggta aggcatacct gtttttggac 240
 acagtctctt tactcagatc agctagtctt acatatgaat tttcttatat gtctctcaac 300
 aagtgcctaa aatgcctcgt tgtgctgtga gtaaaggctt gttgattagg ctggggcg 357

<210> 24
 <211> 890
 <212> DNA
 <213> Homo sapiens

<400> 24
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<210> 25
 <211> 651

<212> DNA

<213> Homo sapiens

<400> 25

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gactggcatc cttctgagaa ggcaatgtat cctgattact ttgccaagag agaacagtgg 360
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atctttcatg cttgcaagtg aaatatgtta cagaacatgc acttgcccta ataaaaaatc 600
agtgaatggg taaaaaaaaa agtgccattg tagtatgcaa taataagcgg c 651

```

<210> 26

<211> 1256

<212> DNA

<213> Homo sapiens

<400> 26

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agagtctttt gtgccataat gcagcagtat ggagggagga ttttatggag aaatggggat 180
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```

<210> 27

<211> 694

<212> DNA

<213> Homo sapiens

<400> 27

```

gtttctaaag gatgtgtaag aaaccagagg taaaggctct gcgatatctt aagacatccg 60
gcgtagtacg cttcagtgag ccacagcgct agagaagtag gagaagctcg cgagatctgt 120
gccgttgccg aggagactag gagggggagg agaggggatc tcgcgaaagg aaagagggtc 180
ggagcgctcg cgagatctcg gaccacccaa cctgaaagggt gcttaggaag ttgaaaggcc 240
cagaggaggc cctcgggcaa atggccggag ctggaccgac catgctgcta cgagaagaga 300
atggctgttg cagtcggcgt cagagcagct ccagtgctgg ggattcggac ggagagcgcg 360

```

```

aggactcggc ggctgagcgc gcccgacagc agctagaggc gctgctcaac aagactatgc 420
gcattcgcac gacagatgga cggacactgg tcggctgctt cctctgcact gaccgtgact 480
gcaatgtcat cctgggctcg gcgcaggagt tcctcaagcc gtcggattcc ttctctgccg 540
gggagccccg tgtgctgggc ctggccatgg tacccggaca ccacatcggt tccattgagg 600
tgcagagggg gagtctgacc gggcctccgt atctctgacc acgatggcgc ttacctttca 660
gacttcatta aacttatgac cgaaaaaaaa aaaa 694

```

<210> 28

<211> 1927

<212> DNA

<213> Homo sapiens

<400> 28

```

gcgagtattt attttttttt tttttttttt acagaaattg acctttattt gttgtactaa 60
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tcagtacctg tctgtgcaca ctgtaccatc tcagtcccac tctgcctgta acttagaaaa 180
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ctcgctagta aaatgaaatg ttaggaacag tattaaata taggtcctac cccaacgaca 480
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acatcaaate ttcagccaga catatctagc ctcaagaagt caaaaaaaaa aaaagcccc 600
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acacgtcatt cagctcagag taagaccca gggttgaggc aaggcagtac agcttgact 1860
ctttctactg tgtggctgtc tgctttgtgc tccttggcac tctgtccat cccacctga 1920
ctctcct 1927

```

<210> 29

<211> 672

<212> DNA

<213> Homo sapiens

<400> 29

```

gcctttttat tttttttttt tggctggtat gctgcattta ttatgagaat caacagtcaa 60
cagttaatga ttgactaact cttgtgtgtc actctggaca ttaacgaaaa agactggaat 120
agggctacag cgctgctttt atgctacacg gggtatgctt ggactctgac tcccagcagc 180

```

```

aggtagattc aggaattcat ggcagtgaca ttcaccatca tgggaaacac cttccctttt 240
cttcaggatt ctctgtagtg gaagagagca cccagtgttg ggctgaaaac atctgaaagt 300
agggagaaga acctaaaata atcagtatct cagaggggtc taagggtgcc agaagtctca 360
ctggacattt aagtgccaac aaaggcatac tttcggaatc gccaaagtcaa aacttttctaa 420
cttctgtctc tctcagagac aagtgagact caagagtcta ctgctttagt ggcaactaca 480
gaaaactggg gttaccaga aaaacaggag caattagaaa tggttccaat atttcaaagc 540
tccgcaaaca ggatgtgctt tcctttgccc atttaggggt tcttctcttt cctttctctt 600
tgtttagtct tcgttctctt tttcagtttc catcagatct cccctcgtg ccactggaat 660
ctcagagggt gc 672

```

<210> 30

<211> 269

<212> DNA

<213> Homo sapiens

<400> 30

```

ccgcatacta gccgccgact cacacaaggc aggtgggtga ggaaatccag agttgccatg 60
gagaaaattc cagtgtcagc attcttgccg cttgtggcgc tctcctacaa tctggccagg 120
gatagcacag tcaaacctgg agccaaaaag gacaggaagg agtctcgagc caaactgcgc 180
cagaccctct ccagaagttg gggatgaaca ctcattctgga ctcagacgta tgaagaagct 240
ctatataaat cgagactagc aactaacc 269

```

<210> 31

<211> 604

<212> DNA

<213> Homo sapiens

<400> 31

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tgcgagggcg ggatagctgt ccaaggtctc cccagcact gaggagctcg cctgctgccc 60
tcttgccgcg gggaagcagc accaagttca cggccaacgc cttggcacta ggggtccagaa 120
tggctacaac agtccctgat ggttgccgca atggcctgaa atccaagtac tacagacttt 180
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agctcgctcg ggggaggaag cccctttccc ggttggtgat tctgggtctg gccgtgggct 540
tcagcctagt ccaggatgtt atcgctattg aatatattgt cctgacgatg aataggacca 600
aggt 604

```

<210> 32

<211> 781

<212> DNA

<213> Homo sapiens

<400> 32

```

ctttaatgtg cctagagcaa tggaatgggg cactttgggg gcggtggaat tcaagacgct 60
ctggctgaag attcagaagt atctggtaac tctcttttcc ttctgggcat cctctcctct 120
gttctaattc tcccttacac tcattcctgg tccattgtat tctgaccaca tcttaataca 180
tggtcaaaac tattgagtc tgggcacatt ggatcatgaag gaacaagaag gcaatgagag 240
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tggccaagct ctatgcttg ctctgaaacc ttcttgggag gagtcaatag ggtctccttt 360
tgaaagtgtc cctggccttt tgagaaagca gtgtgggtgga gggagatggg tctggcaggg 420
gccgtgaatg gttgttttct acttgggatt tcttctctgc tttaggagat ctattgggaa 480
actgattata accactcggg caccatcgat gccacagaga tgaggacagc cctcaggaa 540

```

```

gcagggtttca ccctcaacag ccagggtgcag cagaccattg ccctgcggtg tgcgtgcagc 600
aagcttggca tcaactttga cagcttcgtg gcttgtatga tccgcctgga gaccctcttc 660
aaactattca gccttctgga cgaagacaag gatggcatgg ttcagctctc tctggccgag 720
tggctgtgct gcgtgttggt ctgacccgcc aaacttgacc tagaagatgg ggggggcctc 780
c 781

```

```

<210> 33
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<400> 33
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cctccgcaac catgtctgac aaacccgata tggctgagat cgagaaattc gataagtcga 120
aactgaagaa gacagagacg caagagaaaa atccactgcc ttccaaagaa acgattgaac 180
aggagaagca agcaggcgaa tcgtaaggag gcgtgcgccg ccaagtatgc actgagatgc 240
gagaagtgtt gcgtcgaatt tacctgcttg agggggtaaa gttgggaagg tggaaaaggg 300
gtgg 304

```

```

<210> 34
<211> 1528
<212> DNA
<213> Homo sapiens

```

```

<400> 34
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cggatccatg gtggccaccc caagacgcgc cccagcccgc catggcccgg atcctccggg 120
atcctgcctt ctgtccctgc tectggccgg gtttgttccg ccgggcccgg gacaagagaa 180
gtctaagaca gactgccatg gcggtatgag tggtagcatc tacgagtatg gagccctcac 240
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caacgtagcc agctactgag gtctgacaga ccaatacctt gaactgaatg cactacaaga 360
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caggcttagg ctcccaggca gggacactac cccgcgcct ctggaggaca tgctatcctc 1440
tactctgtc cactggtatc tcaacacccc catctgcca gtaaaggctt ttctgcagca 1500
aaaaaaaaa agaaaaaaaaa aaaaaaaaa 1528

```

```

<210> 35
<211> 499
<212> DNA

```

<213> Homo sapiens

<400> 35

```

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cttaggaccc aacttctctt accgccatgg agttcgacct gggagcagcc ctggagccca 120
cctcccagaa gcccggtgtg ggggcgggcc acgggggaga tcccaagctc agtccccaca 180
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agaagggcaa gaaggagaag ggcaagaaga aggaggctcc ccactgaagg gccctggaca 420
gggctcatta aaccttcctc tctgcctacg agtaccaacc acctggagct aagatgctta 480
ggtggggggg ggccgccga                                     499

```

<210> 36

<211> 1396

<212> DNA

<213> Homo sapiens

<400> 36

```

gggcacccgt tagttgggaa cagcggaaacg ctggtcccgg ggactgagta aggtgtcttg 60
atcgagggga ggttcgggtg ggcatcgggc ggctggaaga gctcgactcg tcccgtggg 120
aaagcgcgag tctgagtga accctggacg acttgacagag cggctggcgc agtcatggcg 180
gactactgga agtcacagcc aaagaaattc tgtgattact gcaagtgtcg gatagcagac 240
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ttgtcccgtg ttttgt                                     1396

```

<210> 37

<400> 37

000

<210> 38

<211> 808

<212> DNA

<213> Homo sapiens

<400> 38


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cctctgtcca ctgctttcgt gaagacaaga tgaagttcac aattgtcttt gctggacttc 60
ttggagtctt tctagctcct gccctagcta actataatat caacgtcaat gatgacaaca 120
acaatgctgg aagtgggcag cagtcagtga gtgtcaacaa tgaacacaat gtggccaatg 180
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taaaatcatt tagcattgaa acggagaact ctgcgggcta gtaaccacaa ggtacggagc 780
aaagatcacc caggtgggaa gaggtgga                                808

```

<210> 39

<211> 1139

<212> DNA

<213> Homo sapiens

<400> 39

```

tttttttttt tttttttttt ttttttgcag caatacctcc tttatttgat ccctgtttat 60
gtccacatat gtactgtatt atcacagatg caactgattt atcatagagc actcagaaaa 120
catggaaaag tattttttaa aatcgaataa tcctattcaa gtcaaccagt gtttaacccg 180
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gttcaacatc ctcaactcgg agcgtcactg gctggagggtg gtctataaat ggaattggct 360
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acaactgcct tagacggcaa agaattcaca ggtcaatcgt tcccttcgct ttgaacttct 480
tcgcagaccg ttcaacttgac cgaagctgga atttgctccc gtaaattgtag gaaataaagc 540
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tctactgttt ccagagttca tggagagggc ggaaaaggct gtatctctgc tgcttgggtt 840
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```

<210> 40

<211> 2177

<212> DNA

<213> Homo sapiens

<400> 40

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ttttatttct gctatttcaa gaagtaaact ggaagatatt gcaaattgag cgtagcagc 420
tagtgcagta acacaagtag ccaaggtttt tgaccaatat ctcaatttta ttactttgga 480
agatgatatg tttgtattat gtaatcaaaa taaggagctt gtttcatatc gtgccattaa 540

```

caggccagat	atcacagaca	cggaaatgga	aactgttatg	gacactatag	ttgacagcct	600
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<211> 402

<212> DNA

<213> Homo sapiens

<400> 41

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<210> 42

<211> 1349

<212> DNA

<213> Homo sapiens

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<210> 43

<211> 3552

<212> DNA

<213> Homo sapiens

<400> 43

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<210> 44
<211> 601
<212> DNA
<213> Homo sapiens

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<210> 45
<211> 2147
<212> DNA
<213> Homo sapiens

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<211> 623

<212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 781

<212> DNA

<213> Homo sapiens

<400> 47

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<210> 48

<211> 1714

<212> DNA

<213> Homo sapiens

<400> 48

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tcttttgttt  ttttaaatac  ttaggaactt  agcacctggg  gttatttgga  ttaggtgagg  1680
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<210> 49

<211> 831

<212> DNA

<213> Homo sapiens

<400> 49

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gcctcggagc tgaagcccgt actcaagatg gcggctccgg gcgggctggg ccagtgacta 240
gaaggcgagg cgccgcggga ccatggcggc ggcggcgagc gagcggagtc cagaggacgg 300
agaagacgag gaagaggagg agcagttggt tctgggtggaa ttatcaggaa ttattgattc 360
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cattctgcaa gtggacagct gtgtctttgc tggggagtat gaagacactc tagggacctg 480
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aaaatataaaa tgccatacaa tgaagaagct cagcatgaca agaactctcc tgacagagaa 600
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agcttcagcc ccagataaat ctttggaatt ggaagaggaa gagattcaaa tgaaccaccg 780
gttcaaaccg gggtttggtg aaccggggga acccattgcy ccttgggaaat t 831

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<210> 50

<211> 744

<212> DNA

<213> Homo sapiens

<400> 50

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atataggacg gagtaatctg tttacattct gttcttctcg atgcactcac aagcgggtaa 180
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gtttctcttg cgccctggc caagatggcg gatgaagcca cgcgacgtgt tgtgtctgag 360
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actgccccag aaattgcagt tcctgagctg gatggaaaga cagcaaagat gtacaggtag 660
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```

<210> 51

<211> 2017

<212> DNA

<213> Homo sapiens

<400> 51

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gacatcttcc agcaacagat ctcgagaaga cagctggcta aaatccttat ttgtccggaa 180
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ctatccagcc ctcacagaag tcatgaataa actcagagaa aataaggaaat ttttggaatt 480
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aatttccaca aaaaaaaaaa aaaaaaaaaa aaaaaaa 2017

```

<210> 52

<211> 856

<212> DNA

<213> Homo sapiens

<400> 52

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cgcagtgcgc aggcgtgggg ctctctcctt gtcagtcggc gccgcgtgcg ggctggtggc 60
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cgccgcgccc ttctccctgg agtaccgagt ctctctcaaa aatgagaaag gacaatatat 180
atctccattt catgatattc caatttatgc agataaggat gtgtttcaca tggtagttga 240
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gtttagaagg tataaggttc ctgatggaaa accagaaaat gagtttgcgt ttaatgcaga 720
atttaaagat aaggactttg ccattgatat tattaaaagc actcatgacc attggaaagc 780
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<210> 53

<211> 540

<212> DNA

<213> Homo sapiens

<400> 53

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aatacaacat atctccggaa acccgcgagg cgcaagcgag cggttggcca taagagccca 180
gctgaaacga gactacctgc ttcagtacaa cgatcccaac cgccgagggc tcacgaaaa 240
tcctgccttg ctctgttggg cctatgcaag aacaataaat gtctatccta atttcagacc 300
cactcctaaa aactcactca tgggagctct gtgtggattt gggccctca tcttcattta 360
ttatattatc aaaactgaga gggataggaa agaaaaactt atccaggaag gaaaattgga 420

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tcgaacattt cacctctcat attaagtctg gcaatgatga ctatatgtat tcctgcctaa 480
ataaatcatc tattaatcat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagtcg 540

<210> 54

<211> 1912

<212> DNA

<213> Homo sapiens

<400> 54

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tgtttgctcc aactgacact tcagatatgg aagcagtatg gaaggaggca aaaccggaag 180
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attaatttta tgccataaaa gaccaaccca gttctgtttg actatgtagc atcttgaaaa 1860
gaaaaattat aataaagccc caaaattaag aaaaaaaaaa aaaaaatact gc 1912

<210> 55

<211> 1962

<212> DNA

<213> Homo sapiens

<400> 55

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gtaatataca acctgtccag tagccgaaca gtttgttttt attgtgtttt ctaaccgtaa 480

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aaaagaaaca gcactctgca tgcttcactc tacaagatga atttccctag aaagaatcca 660
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caaacaaaaa ctgtaatttt gttatatttg attcaatgga atttacctaa aaaataaaga 1920
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1962

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<210> 56

<211> 1458

<212> DNA

<213> Homo sapiens

<400> 56

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gcatagtgga agtgatagat ctggcctgaa gcacgaggac aaacgtggag gtacgggatc 180
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ttggggtcca aattataa
1458

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<210> 57
 <211> 2188
 <212> DNA
 <213> Homo sapiens

<400> 57

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ccccccccc cccccccccc cccccccccc cccccccccc cccccccccc cccccccccc 240
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aaaaaaaaaa aaaaaaaaaa aaaaaaaa
2188

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<210> 58
 <211> 1548
 <212> DNA
 <213> Homo sapiens

<400> 58

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ggccccagtc accatcaccc caaccatgag cagcggagcc gagaccagc agccgccgc 180
ggccccccc gcggcccccc cctcagcgc cgccgacacc aagcccggca ctacgggcag 240
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<210> 71

<400> 71

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<210> 72

<211> 922

<212> DNA

<213> Homo sapiens

<400> 72

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aaaaggggga aaaaaaacct tt 922

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<210> 73

<211> 870

<212> DNA

<213> Homo sapiens

<400> 73

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ggccccagca gcagcgcgca gagcagcccc agtagcagcg ccatggccgg gtggaacgcc 180
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gacaagacgc tagtctgct gatgggcaaa gaagtggtcc acggtggttt gatcaacaag 540
aaatgttatg aaatggcctc ccaccttcgg cgttcccagt actgacctcg tctgtccctt 600

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cccccttcacc gctccccaca gctttgcacc cctttcctcc ccatacacac acaaaccatt 660
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<210> 74

<211> 1418

<212> DNA

<213> Homo sapiens

<400> 74

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<210> 75

<400> 75

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<210> 76

<211> 1712

<212> DNA

<213> Homo sapiens

<400> 76

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tagccccaca gaatgctgtg tcctctgaag aaaccaatga ctttaaaca gagacccttc 420

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ccagcaatta ataaaacata acctttttta ctgcctaaaa aaaaaaaaga gaaaagaaaa 1680
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<210> 77

<400> 77

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<210> 78

<211> 1273

<212> DNA

<213> Homo sapiens

<400> 78

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1273

<210> 79
 <211> 2342
 <212> DNA
 <213> Homo sapiens

<400> 79

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2342

<210> 80
 <211> 1959
 <212> DNA
 <213> Homo sapiens

<400> 80

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gactgagtct	aagttctcta	agtactctga	aatgagtgag	gaaaaacgag	ccaaacttcg	180
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<211> 3708

<212> DNA

<213> Homo sapiens

<400> 81

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caaaagcttc tatccagagg aggtgtcttc tatggttctg acaaagatga aggaaattgc 480
agaagcctac cttgggaaga ctgttaccac tgcttgggtt cacagtgcga gcttacttta 540
atgactctca gcgtcaggct accaaaagat gctggagact attgatggtc tgcaatgtac 600
tttaggaatt atttaattga gccaaacttg tgccctggtaa tttctttacg ggtttgggca 660
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<210> 87

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<400> 87
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<210> 88
<211> 1108
<212> DNA
<213> Homo sapiens

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<400> 88
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agtcgccaca ccttgcccc tgctgcgatg accctgtcgc cacttctgct tcggacgtcc 180
ccacggcggc ggtgcaggcg tcccctctgc aagcgttaga cttctttggg aatgggccac 240
cagttaacta caagacaggc aatctatacc tgccggggcc cctgaagaag tccaatgcac 300
cgcttgtaaa tgtgaccctc tactatgaag cactgtgcgg tggctgccga gccttcctga 360
tccgggagct cttcccaaca tggctgttgg tcatggagat cctcaatgtc acgctgggtc 420
cctacggaaa cgcacaggaa caaaatgtca gtggcagggt ggagttcaag tgccagcatg 480
gagaagagga gtgcaaatc aacaagggtg aggcctgcgt gttggatgaa cttgacatgg 540
agctagcctt cctgaccatt gtctgcatgg aagagtttga ggacatggag agaagctctg 600
cactatgcct gcagctctac gccccagggc tgctgccaga cactatcatg gagtgtgcaa 660
tgggggaccg cggcatgcag ctcatgcacg ccaacgcccc gcggacagat gctctccagc 720
caccgcacga gtatgtgccc tgggtcaccg tcaatgggaa acccttggaa gatcagaccc 780

```

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agtccttac ccttgtctgc cagttgtacc agggcaagaa gccggatgtc tgcccttcct 840
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tggaaggcga gtgggaaccc ggctgcctgc ctttttttct gatccagacc ctcggcacct 960
gctacttacc aactggaaaa ttttatgcat cccatgaagc ccagatacac aaaattccac 1020
cccatgatca agaatcctgc tccactaaga atggtgctaa agtaaaacta gtttaataag 1080
ccccaaaaaa aaaaccgcgt cggtcgac
1108

```

```

<210> 89
<211> 720
<212> DNA
<213> Homo sapiens

```

```

<400> 89
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cgcttggtgg acagcaaagg ctttgatgaa tacatgaagg agctaggagt gggaatagct 180
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ctcaccataa aaactgagag cactttgaaa acaacacagt tttctgtac cctgggagag 300
aagtttgaag aaaccacagc tgatggcaga aaaactcaga ctgtctgcaa ctttacagat 360
ggtgcattgg ttcagcatca ggagtgggat ggggaaggaaa gcacaataac aagaaaattg 420
aaagatggga aattagtggg ggagtgtgtc atgaacaatg tcacctgtac tcggatctat 480
gaaaaagtag aataaaaatt ccatcatcac tttggacagg agttaattaa gagaatgacc 540
aagctcagtt caatgagcaa atctccatac tgtttctttc tttttttttt cattactgtg 600
ttcaattatc tttatcataa acattttaca tgcagctatt tcaaagtgtg ttggattaat 660
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<210> 90
<211> 837
<212> DNA
<213> Homo sapiens

```

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<400> 90
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cctaccaaga ggccagaagg cagaacttat gctgactacg aatctgtgaa tgaatgcatg 180
gaagggtgtt gtaaaatgta tgaagaacat ctgaaaagaa tgaatcccaa cagtcctct 240
atcacatatg acatcagtca gttgtttgat ttcacgatg atctggcaga cctcagctgc 300
ctggtttacc gagctgatac ccagacatac cagccttata acaaagactg gattaaagag 360
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tcaactaatg ttggttcag tccttcaact gttcatatct actttataac attcacatac 720
taacccttct tcaagatggg gtgggggggtg gaaatgcagt ttagccatgt cctcaagata 780
aagtcttggt aaaaataaat aaatgtcctt tagttataaa aaaaaaaaaa aaaaaaa 837

```

```

<210> 91
<211> 498
<212> DNA
<213> Homo sapiens

```

```

<400> 91
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```

```
gcagccggta gacttaggtc tgtagagga agacgacgag tttgaagagt tccctgccga 180
agactgggct ggcttagatg aagatgaaga tgcacatgtc tgggaggata attgggatga 240
tgacaatgta gaggatgact tctctaataca gttacgagct gaactagaga aacatgggta 300
taagatggag acttcatagc atccagaaga agtggtgaag taacctaaac ttgacctgct 360
taatacattc tagggcagag aaccaggat gggacactaa aaaaatgtgt ttatttcatt 420
atctgcttgg atttatttgt gtttttgtaa cacaaaaaat aaatgttttg atataaaaag 480
gaaagagaaa aattgcgg                                     498
```

<210> 92

<211> 1077

<212> DNA

<213> Homo sapiens

<400> 92

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tagtaaccat gggcttgctg acttagccaa agaagagtta agaagaaaat acacacaagt 120
atacagactg ttcctagttt cttagactta tctgcatatt ggataaaaata aatgcaattg 180
tgctcttcat ttaggatgct ttcattgtct ttaagatgtg ttaggaatgt caacagagca 240
aggagaaaaa aggcagtcct ggaatcacat tcttagcaca cctacacctc ttgaaaatag 300
aacaacttgc agaattgaga gtgattcctt tcctaaaagt gtaagaaagc atagagattt 360
gttcgtattt agaatgggat caccaggaaa agagaaggaa agtgattttt tccacaaga 420
tctgtaatgt tatttccact tataaaggaa ataaaaaatg aaaaacatta tttggatatc 480
aaaagcaaat aaaaacccaa ttcagtctct tctaagcaaa attgctaaag agagatgaac 540
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tattttaaaag gtaaaacatg ctggtgaacc aggggtgttg atggtgataa gggaggaata 660
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tcttttgtaa tatttattta tatttattta tgacagtga cattctgatt ttacatgtaa 900
aacaagaaaa gttgaagaag atatgtgaag aaaaatgtat ttttcctaaa tagaaataaa 960
tgatcccat ttttggtaaa aaaaagtatg tgagatttat tcgtaaactg gactacttta 1020
tttctaaata agagattccc tacctgcgtc ctacaagcag ttcagaatgc catgcct 1077
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<210> 93

<211> 1755

<212> DNA

<213> Homo sapiens

<400> 93

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aactggaaac acaaagatgc agccatctac ctagtacat ctttggcatc aaaagcccaa 180
acacagaagc atggaattac acaagcaaat gaacttgtaa acctaactga gttctttgtg 240
aatcacatcc tccctgattt aaaatcagct aatgtgaatg aatttcctgt ccttaaagct 300
gacggatatca aatatattat gattttttaga aatcaagtgc caaaagaaca tcttttagtc 360
tcgattcctc tcttgattaa tcatcttcaa gctgaaagta ttgttgttca tacttacgca 420
gctcatgctc ttgaacggct ctttactatg cgagggccta acaatgccac tctctttaca 480
gctgcagaaa tcgcaccgtt tgttgagatt ctgctaacaa accttttcaa agctctcaca 540
cttcttggtc cttcagaaaa tgaatatatt atgaaagcta tcatgagaag tttttctctc 600
ctacaagaag ccataatccc ctacatccct actctcatca ctacagcttac acagaagcta 660
ttagctgtta gtaagaaccc aagcaaacct cactttaatc actacatgtt tgaagcaata 720
tgtttatcca taagaataac ttgcaaagct aaccctgctg ctggttgtaa ttttgaggag 780
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gctctagtga ggcttcttca agcattctta gaacgcgggt caaacacaat agcaagtgtc 1020
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gcagctgaca aaattcctgg gttactaggt gtctttcaga agctgattgc atccaaagca 1080
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gttgaccaat ataggaaaca aatcttcatt ctgctattcc agagacttca gaattccaaa 1200
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aaccaccaaa ttcacctggc acagtcactt cacaagttgt ctaccgcctg tccaggaagg 1680
gttccatcaa tggcaaaagaa ctctgtgata aatgggagact ttaatgggag ggcaaaagga 1740
tagtagtagt tctgg
1755

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<210> 94

<211> 1545

<212> DNA

<213> Homo sapiens

<400> 94

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gttcggcgag cgagcacctt cgacgcgggtc cggggacccc tcgtcgctgt cctcccgacg 60
cggaccgggt gccccagggt cgcgctgccc ggcagggtgc tcgtgtccca ctcccggcgc 120
acgcctcccg cgagtcccg gcccctcccg cgcccctctt ctcggcgcgc gcgcagatgg 180
gcgccccgc aggtcctcgc gttcggggtt ctgcttgccg cggcgacggc gacttttgcc 240
gcagctcagg aagaatgtgt ctgtgaaaac tacaagctgg ccgtaaaactg ctttgtgaat 300
aataatcgtc aatgccagtg tacttcagtt ggtgcacaaa atactgtcat ttgtcaaag 360
ctggctgcca aatgtttggt gatgaaggca gaaatgaatg gctcaaaact tgggagaaga 420
gcaaaacctg aaggggccct ccagaacaat gatgggcttt atgactctga ctgcgatgag 480
agcgggctct ttaaggccaa gcagtgcac ggcacctcca tgtgctggtg tgtgaacact 540
gctgggggtca gaagaacaga caaggacact gaaataacct gctctgagcg agtgagaacc 600
tactggatca tcattgaact aaaacacaaa gcaagagaaa aaccttatga tagtaaaagt 660
ttgcggactg cacttcagaa ggagatcaca acgcgttatc aactggatcc aaaatttatc 720
acgagtattt tgtatgagaa taatgttatc actattgatc tggttcaaaa ttcttctcaa 780
aaaactcaga atgatgtgga catagctgat gtggcttatt attttgaaaa agatgttaaa 840
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atgtgtaaca ttcaaagtgt tgcattaaat atgcttccac agtaaaatct gaaaaactga 1440
tttgtgattg aaagctgcct ttctattttac ttgagtcttg tacatacata ctttttttatg 1500
agctatgaaa taaaacattt taaactgaaa aaaaaaaaaa aaggc
1545

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<210> 95

<211> 1133

<212> DNA

<213> Homo sapiens

<400> 95

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gcgcgggtatt atcgggtaga catctcgac cgcgtctcgg aaaccggtag cgcttgacgc 60
atggctgacc aactgactga agagcagatt gcagaattca aagaagcttt ttcactatct 120
gacaaagatg gtgatggaac tataacaaca aaggaattgg gaactgtaat gagatctctt 180

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gggcagaatc ccacagaagc agagttacag gacatgatta atgaagtaga tgctgatggg 240
aatggcacaa ttgaacttcc ctgaatttct ggacaaggat ggcaagaaaa atgaaagaca 300
cagacagtga agaagaaatg agagaagcat tccgtgtgtt tgataaggat ggcaagggct 360
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aagaagttga tgaaatgatc aggggaagcag atattgatgg tgatgggtcaa gtaaaactatg 480
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cccttatctt actgtcattg tcctaaaacc ttattttaga aaagttgatc aaggtaacat 720
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gagttgggtca aatgagggaa catctgggtt atgccttttt taaagtagtt ttcttttagga 840
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ttttaaacctt gggttagcca cttaaaatct gcttatggca caatttgccc caaaatccat 1080
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<210> 96

<211> 791

<212> DNA

<213> Homo sapiens

<400> 96

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ggagcagccc agaggcgggg ggcccaccag ctctgagcag atcatgaaga cagggggccct 120
tttgcttcag ggtttcatcc aggatcgagc agggcggaatg gggggggagg cacccgagct 180
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gtgcaccaag gtgccggaac tgatcagaac catcatgggc tggacattgg acttccctcc 480
ggagcggctg ttgggctgga tccaagacca ggggtggttg gacggcctcc tctcctactt 540
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caccatctgg aagaagatgg gctgaggccc ccagctgcct tggactgtgt ttttctcca 660
taaattatgg catttttctg ggaggggtgg ggattggggg acatgggcat ttttcttact 720
tttgtaatta ttggggggtg tggggaagag tggctctgag ggggtaataa acctccttcg 780
ggacacaaaa a

```

791

<210> 97

<211> 599

<212> DNA

<213> Homo sapiens

<400> 97

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tcctgccttc accatgaagt ccagcggcct cttccccctt ctggtgctgc ttgccctggg 60
aactctggca ccttgggctg tggaaggctc tggaaagtcc ttcaaagctg gactctgtcc 120
tcctaagaaa tctgcccagt gccttagata caagaaacct gactgcccaga gtgactggca 180
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gtgttgcatg ggcattgtgt ggaaatcctg cgtttccctt gtgaaagctt gattcctgcc 420
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tggtccacc actgatatcc tcctttgggg aaaggcttgg cacacagcag gctttcaaga 540
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<210> 98
 <211> 643
 <212> DNA
 <213> Homo sapiens

<400> 98
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 atcttttcca actccaaggt gccatggcag agaagggtgt ggtaacaggt ggggctggct 180
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<210> 99
 <211> 860
 <212> DNA
 <213> Homo sapiens

<400> 99
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 ggagagtgtt cgagaatggg aaatgcagtt taaagaaaaa tatgattatg taggcagact 180
 cctaaaacca ggagaagaac catcagaata tacagatgaa gaagatacca aggatcacia 240
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 ctccctttca cagactgtcc ggagtctttg ggtttgattc acctgctgct aaaaacattc 360
 aacaaattgt gtacaagata aattaatctc actatgaaga tttgaataac tagacattat 420
 ttatgctgcc aaactcattt gttgcagttg tttgtaattg ctagtggggc ttcattcatc 480
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 gacaaccaga tatgtatttg ctactcaagt gtacagatct cctcaagaaa catcaaggga 660
 ctctgtgtgc acatactgtg tttttatttt aacatgggtg agggaggcga cctgatcagg 720
 ggaggtgggg gtacacatca atttgagttg ttcaggctac tgaaacatta aaatgtgaat 780
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 cttgggaatt ggggtgtggg 860

<210> 100
 <211> 1155
 <212> DNA
 <213> Homo sapiens

<400> 100
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 gcgccccgag cactctctcg ccagcagccg tccggagcca gccaacgagc ggaaaatggc 180
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 tgccactggc cctatggcg cccctgctgg gccactgatt gtgccttata acctgccttt 540
 gcctggggga gtgggtgctc gcatgctgat aacaattctg ggcacggtga agcccaatgc 600

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aaacagaatt gctttagatt tccaaagagg gaatgatgtt gccttccact ttaaccacg 660
cttcaatgag aacaacagga gagtcattgt ttgcaatata aagctggata ataactggg 720
aagggaagaa agacagtcgg ttttcccatt tgaaagtggg aaaccattca aaatacaagt 780
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<210> 101
<211> 522
<212> DNA
<213> Homo sapiens

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<210> 102
<211> 1628
<212> DNA
<213> Homo sapiens

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<210> 103

<211> 605

<212> DNA

<213> Homo sapiens

<400> 103

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<210> 104

<400> 104

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<210> 105

<211> 2731

<212> DNA

<213> Homo sapiens

<400> 105

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<210> 106

<211> 2194

<212> DNA

<213> Homo sapiens

<400> 106

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<210> 107

<211> 1812

<212> DNA

<213> Homo sapiens

<400> 107

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<210> 108

<211> 890

<212> DNA

<213> Homo sapiens

<400> 108

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<210> 109

<400> 109

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<210> 110

<211> 2627

<212> DNA

<213> Homo sapiens

<400> 110

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<210> 111

<211> 976

<212> DNA

<213> Homo sapiens

<400> 111

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976

<210> 112

<211> 1427

<212> DNA

<213> Homo sapiens

<400> 112

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<210> 113

<211> 2639

<212> DNA

<213> Homo sapiens

<400> 113

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<210> 114
<211> 634
<212> DNA
<213> Homo sapiens

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634

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<210> 115
<211> 719
<212> DNA
<213> Homo sapiens

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<400> 115
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<210> 116
<211> 494
<212> DNA
<213> Homo sapiens

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<400> 116
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494

<210> 117

<211> 1065

<212> DNA

<213> Homo sapiens

<400> 117

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1065

<210> 118

<400> 118

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<210> 119

<400> 119

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<210> 120

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<212> DNA

<213> Homo sapiens

<400> 120

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<210> 121

<211> 1842

<212> DNA

<213> Homo sapiens

<400> 121

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<210> 122

<211> 1596

<212> DNA

<213> Homo sapiens

<400> 122

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<210> 123

<211> 1033

<212> DNA

<213> Homo sapiens

<400> 123

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atggcagata ttcaaaacgt cagcaaccaa aggcaccggc cttgatgagg caatggaatg 660
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<210> 124

<211> 65

<212> PRT

<213> Homo sapiens

<400> 124

Ile Cys Leu Leu Val His Phe Val Ser Arg Ala Lys Thr Val Asn Leu

59

1		5						10					15		
Thr	Phe	Ser	Tyr	Trp	Trp	Val	Ile	Thr	Glu	Asn	Lys	Asp	Leu	Phe	Ser
			20					25					30		
Cys	Ser	Leu	Leu	Lys	Ser	His	Lys	Asn	Asn	Gln	Ile	Gly	Ser	Cys	Leu
		35					40					45			
Leu	Ser	Cys	Val	Ser	Trp	Phe	Leu	Thr	Cys	Val	His	Thr	Pro	Val	Cys
		50				55					60				
Leu															
65															

<210> 125
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 125															
Ile	Ser	Val	Phe	Arg	Leu	Phe	Lys	Tyr	Leu	Thr	His	Phe	Gln	Thr	Cys
1					5					10				15	
Thr	Met	Phe	Tyr	Lys	Pro	Leu	Asp	Phe	Gln	Gln	His	Thr	Ile	Glu	Asn
				20				25					30		
Thr	Cys	Tyr	Ser	Lys	His	Asn	Phe	Ser	Val	Ser	Ser	Ile	Ala	Val	Val
		35					40					45			
Arg	Asp	Asn	Ile	Ala	Ile	Ser	Gly	Met	Leu	Gln	Ala	Phe	Lys	Ile	Ala
	50					55					60				

<210> 126
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 126															
Lys	Ala	Asn	Leu	Leu	Pro	Ala	Thr	Pro	Glu	Gly	Thr	Gln	Ile	Trp	Val
1				5					10					15	
Gly	Pro	Val	Phe	Gln	Leu	Gly	Lys	Arg	Met	Gly	Lys	Pro	Gly	Asp	Gly
		20						25					30		
Phe	His	Lys	Phe	Ser	Ser	Gly	Leu	Trp	His	Ser	Phe	Gln	Glu	Ile	Pro
		35					40					45			
Leu	Gly	Lys	Gly	Leu	Leu	Ala	Asn	Met	His	Phe	Gln	Thr			
	50					55					60				

<210> 127
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 127

Leu Lys Asn Thr Asn Glu Val Lys Ala Leu Asn Trp Tyr Thr Leu Phe
 1 5 10 15

Thr Pro Ile Phe Gln Val Trp Lys Cys Ile Phe Ala Ser Arg Pro Leu
 20 25 30

Pro Arg Gly Ile Ser Trp Lys Glu Cys His Asn Pro Leu Glu Asn Leu
 35 40 45

Trp Lys Pro Ser Pro Gly Phe Pro Ile Arg Leu Pro Ser Trp Lys Thr
 50 55 60

Gly Pro Thr His Ile Trp Val Pro Ser Gly Val Ala Gly Arg Arg Phe
 65 70 75 80

Ala Phe

<210> 128

<211> 90

<212> PRT

<213> Homo sapiens

<400> 128

His Thr Trp Asp Pro Tyr Pro Leu Gly Ile Ser Pro Arg Thr Ile Arg
 1 5 10 15

Pro Val Cys Gln Pro Lys Val Ala Phe Gly Met Leu Asn Phe Pro Leu
 20 25 30

Ser Lys Lys Val His Leu Pro Asn Glu Val Thr Ile Arg Leu Asn Pro
 35 40 45

Lys Lys Ser Leu Asp Phe Val Phe Tyr Lys Asn Ser Thr Phe Pro Ile
 50 55 60

Lys Ser Leu Val Ile Lys Ile Ser Thr Leu Pro Lys Cys Asp Ser Thr
 65 70 75 80

Ala Trp Phe Leu Ala Asn Lys Asn Pro Ile
 85 90

<210> 129

<211> 82

<212> PRT

<213> Homo sapiens

<400> 129

Met Val Ala Asp Tyr Gly Cys Thr Ile Leu Ile Leu Gly Pro Phe Thr
 1 5 10 15

His Arg Asn His Thr Lys Trp Pro Asp Thr Tyr Phe Thr Glu Gln Phe
 20 25 30

Lys Tyr Tyr Thr Leu Ala Lys Ser Thr Tyr Ser Thr His Pro Gly Glu
 35 40 45

Gly Gly Glu Lys Thr His Thr Tyr Lys Thr Thr Ser Leu Asp Thr Met
 50 55 60

Cys Leu Pro Thr Ile Ser Ser Leu Asn Asn Phe His Gln Leu Arg Cys
 65 70 75 80

Leu Val

<210> 130

<211> 70

<212> PRT

<213> Homo sapiens

<400> 130

Arg Asn Leu Val Thr Gln Met Lys Ser Gly Ile Glu Asp Pro Trp Thr
 1 5 10 15

Trp Gln Val Asn Ala Asp Tyr Ser Leu Ala Phe Pro Leu Tyr Leu Cys
 20 25 30

Lys Glu Gly Tyr Thr Glu Leu Ile Leu Phe Gln Ala Tyr Asn Phe Lys
 35 40 45

Phe Tyr His Leu Asn Ser Ser Thr Phe Ala Ala Glu Glu Trp Asn Gln
 50 55 60

Lys Asn Val Val Ser Trp
 65 70

<210> 131

<211> 60

<212> PRT

<213> Homo sapiens

<400> 131

Ala Ile Gln Cys Glu Ala Tyr Phe Ile Ala Thr Leu Val Asp Cys Gln
 1 5 10 15

Gly Asp Ser Ala Thr Val Leu Asp Lys Leu Met Phe Pro Phe Ser Leu
 20 25 30

Ala Ala Asn Arg Arg Ala Thr Tyr Ser Ala Gly Ser Arg Ala Arg Ser
 35 40 45

Trp Gly Ser Arg Gly Tyr Thr Ser Ser Leu Ile Ile
 50 55 60

<210> 132

<211> 181

<212> PRT

<213> Homo sapiens

<400> 132

Ile Pro Asn Met Ala Ala Pro Leu Gly Gly Met Phe Ser Gly Gln Pro

1 5 10 15
 Pro Gly Pro Pro Gln Ala Pro Pro Gly Leu Pro Gly Gln Ala Ser Leu
 20 25 30
 Leu Gln Ala Ala Pro Gly Ala Pro Arg Pro Ser Ser Ser Thr Leu Val
 35 40 45
 Asp Glu Leu Glu Ser Ser Phe Glu Ala Cys Phe Ala Ser Leu Val Ser
 50 55 60
 Gln Asp Tyr Val Asn Gly Thr Asp Gln Glu Glu Ile Arg Thr Gly Val
 65 70 75 80
 Asp Gln Cys Ile Gln Lys Phe Leu Asp Ile Ala Arg Gln Thr Glu Cys
 85 90 95
 Phe Phe Leu Gln Lys Arg Leu Gln Leu Ser Val Gln Lys Pro Glu Gln
 100 105 110
 Val Ile Lys Glu Asp Val Ser Glu Leu Arg Asn Glu Leu Gln Arg Lys
 115 120 125
 Asp Ala Leu Val Gln Lys His Leu Thr Lys Leu Arg His Trp Gln Gln
 130 135 140
 Val Leu Glu Asp Ile Asn Val Gln His Lys Lys Pro Ala Asp Ile Pro
 145 150 155 160
 Gln Gly Ser Leu Ala Tyr Leu Glu Gln Ala Ser Ala Asn Ile Pro Ala
 165 170 175
 Pro Leu Lys Pro Thr
 180

<210> 133
 <211> 423
 <212> PRT
 <213> Homo sapiens

<400> 133
 Leu Ser Glu Asp Glu Ile Arg Thr Leu Lys Gln Lys Lys Ile Asp Glu
 1 5 10 15
 Thr Ser Glu Gln Glu Gln Lys His Lys Glu Thr Asn Asn Ser Asn Ala
 20 25 30
 Gln Asn Pro Ser Glu Glu Glu Gly Glu Gly Gln Asp Glu Asp Ile Leu
 35 40 45
 Pro Leu Thr Leu Glu Glu Lys Glu Asn Lys Glu Tyr Leu Lys Ser Leu
 50 55 60
 Phe Glu Ile Leu Ile Leu Met Gly Lys Gln Asn Ile Pro Leu Asp Gly
 65 70 75 80
 His Glu Ala Asp Glu Ile Pro Glu Gly Leu Phe Thr Pro Asp Asn Phe

85					90					95					
Gln	Ala	Leu	Leu	Glu	Cys	Arg	Ile	Asn	Ser	Gly	Glu	Glu	Val	Leu	Arg
		100						105					110		
Lys	Arg	Phe	Glu	Thr	Thr	Ala	Val	Asn	Thr	Leu	Phe	Cys	Ser	Lys	Thr
		115					120					125			
Gln	Gln	Arg	Gln	Met	Leu	Glu	Ile	Cys	Glu	Ser	Cys	Ile	Arg	Glu	Glu
		130					135					140			
Thr	Leu	Arg	Glu	Val	Arg	Asp	Ser	His	Phe	Phe	Ser	Ile	Ile	Thr	Asp
		145					150					155			160
Asp	Val	Val	Asp	Ile	Ala	Gly	Glu	Glu	His	Leu	Pro	Val	Leu	Val	Arg
				165					170						175
Phe	Val	Asp	Glu	Ser	His	Asn	Leu	Arg	Glu	Glu	Phe	Ile	Gly	Phe	Leu
			180					185					190		
Pro	Tyr	Glu	Ala	Asp	Ala	Glu	Ile	Leu	Ala	Val	Lys	Phe	His	Thr	Met
		195					200					205			
Ile	Thr	Glu	Lys	Trp	Gly	Leu	Asn	Met	Glu	Tyr	Cys	Arg	Gly	Gln	Ala
		210					215					220			
Tyr	Ile	Val	Ser	Ser	Gly	Phe	Ser	Ser	Lys	Met	Lys	Val	Val	Ala	Ser
		225					230					235			240
Arg	Leu	Leu	Glu	Lys	Tyr	Pro	Gln	Ala	Ile	Tyr	Thr	Leu	Cys	Ser	Ser
				245					250					255	
Cys	Ala	Leu	Asn	Met	Trp	Leu	Ala	Lys	Ser	Val	Pro	Val	Met	Gly	Val
			260					265					270		
Ser	Val	Ala	Leu	Gly	Thr	Ile	Glu	Glu	Val	Cys	Ser	Phe	Phe	His	Arg
			275				280					285			
Ser	Pro	Gln	Leu	Leu	Leu	Glu	Leu	Asp	Asn	Val	Ile	Ala	Val	Leu	Phe
			290				295					300			
Gln	Asn	Ser	Lys	Glu	Arg	Gly	Lys	Glu	Leu	Lys	Glu	Ile	Cys	His	Ser
			305				310					315			320
Gln	Trp	Thr	Gly	Arg	His	Asp	Ala	Phe	Glu	Ile	Leu	Val	Glu	Leu	Leu
				325					330					335	
Gln	Ala	Leu	Val	Leu	Cys	Leu	Asp	Gly	Ile	Asn	Ser	Asp	Thr	Asn	Ile
			340					345					350		
Arg	Trp	Asn	Asn	Tyr	Ile	Ala	Gly	Arg	Ala	Phe	Val	Leu	Cys	Ser	Ala
			355				360						365		
Val	Ser	Asp	Phe	Asp	Phe	Ile	Val	Thr	Ile	Val	Val	Leu	Lys	Asn	Val
			370				375					380			
Leu	Ser	Phe	Thr	Arg	Ala	Phe	Gly	Lys	Asn	Leu	Gln	Gly	Gln	Thr	Ser
			385				390					395			400

Asp Val Phe Phe Ala Ala Gly Ser Leu Thr Ala Val Leu His Ser Leu
 405 410 415

Asn Glu Val Ser Gly Lys Tyr
 420

<210> 134
 <211> 237
 <212> PRT
 <213> Homo sapiens

<400> 134

Val Glu Asn Ile Glu Val Tyr His Glu Phe Trp Phe Glu Glu Ala Thr
 1 5 10 15

Asn Leu Ala Thr Lys Leu Asp Ile Gln Met Lys Leu Pro Gly Lys Phe
 20 25 30

Arg Arg Ala His Gln Gly Asn Leu Glu Ser Gln Leu Thr Ser Glu Ser
 35 40 45

Tyr Tyr Lys Glu Thr Leu Ser Val Pro Thr Val Glu His Ile Ile Gln
 50 55 60

Glu Leu Lys Asp Ile Phe Ser Glu Gln His Leu Lys Ala Leu Lys Cys
 65 70 75 80

Leu Ser Leu Val Pro Ser Val Met Gly Gln Leu Lys Phe Asn Thr Ser
 85 90 95

Glu Glu His His Ala Asp Met Tyr Arg Ser Asp Leu Pro Asn Pro Asp
 100 105 110

Thr Leu Ser Ala Glu Leu His Cys Trp Arg Ile Lys Trp Lys His Arg
 115 120 125

Gly Lys Asp Ile Glu Leu Pro Ser Thr Ile Tyr Glu Ala Leu His Leu
 130 135 140

Pro Asp Ile Lys Phe Phe Pro Asn Val Tyr Ala Leu Leu Lys Val Leu
 145 150 155 160

Cys Ile Leu Pro Val Met Lys Val Glu Asn Glu Arg Tyr Glu Asn Gly
 165 170 175

Arg Lys Arg Leu Lys Ala Tyr Leu Arg Asn Thr Leu Thr Asp Gln Arg
 180 185 190

Ser Ser Asn Leu Ala Leu Leu Asn Ile Asn Phe Asp Ile Lys His Asp
 195 200 205

Leu Asp Leu Met Val Asp Thr Tyr Ile Lys Leu Tyr Thr Ser Lys Ser
 210 215 220

Glu Leu Pro Thr Asp Asn Ser Glu Thr Val Glu Asn Thr
 225 230 235

<210> 135
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 135
 Arg Ile Arg Ile Asn Gly Ser Leu Cys Pro Gln Thr Lys Asn Asn Leu
 1 5 10 15
 Tyr Phe His Ile Val Glu Leu Ser Ile Ser Gly Ala Ser Val Gly Glu
 20 25 30
 Arg Trp Tyr Gly Met Gly Glu Ser Ile Leu Pro Ala Arg Gly Glu Ser
 35 40 45
 Gln Gly Leu Leu Cys Leu Tyr Phe Tyr Lys Glu Ile Leu Pro Leu Phe
 50 55 60
 Leu Val Asn Lys Leu Arg Gly Thr Asp Val Gly Leu Glu Gln Gly Leu
 65 70 75 80
 Ser Gly Gly Glu Gly Ser Trp Thr Ala
 85

<210> 136
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 136
 Glu Glu Glu Arg Ala Lys Arg Glu Glu Leu Glu Arg Ile Leu Glu Glu
 1 5 10 15
 Asn Asn Arg Lys Ile Ala Glu Ala Gln Ala Lys Leu Ala Glu Glu Gln
 20 25 30
 Leu Arg Ile Val Glu Glu Gln Arg Lys Ile His Glu Glu Arg Met Lys
 35 40 45
 Leu Glu Gln Glu Arg Gln Arg Gln Gln Lys Glu Glu Gln Lys Ile Ile
 50 55 60
 Leu Gly Lys Gly Lys Ser Arg Pro Lys Leu Ser Phe Ser Leu Lys Thr
 65 70 75 80
 Gln Asp

<210> 137
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 137
 Ser Ala Leu Lys Val Glu Tyr Leu Leu Ser Cys Pro Val Ser Cys Arg

1 5 10 15
 Val Cys Ser Ser Ala Ala Ile Arg Ala Ser Phe Leu Phe Lys Met Ile
 20 25 30
 Cys Thr Val Ser Leu Ala Ile Pro Ala Ser Ala Ala Gln Pro Phe Ile
 35 40 45
 Lys Lys Gln His Thr Arg Lys Ala Glu Leu Arg Asn Ala Asp Val Tyr
 50 55 60
 Gly Lys Lys Glu Gln Lys Met
 65 70

<210> 138
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 138
 Ser Ser Ala Gln Arg Lys Tyr Phe Asn Leu Pro Val Glu Ile Leu Val
 1 5 10 15
 Met Glu Arg Cys Gln Thr Val Leu Asn Gly Arg Thr Ser Lys Ser Glu
 20 25 30
 Ala Thr Val Pro Thr Thr Arg Gly Leu Leu Tyr Cys Ser Thr Phe Ser
 35 40 45
 Ala Leu Tyr Phe Leu Ala Glu Ala Ser Pro Trp Ser Ala Met Tyr Lys
 50 55 60
 Leu Gly Tyr
 65

<210> 139
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 139
 Arg Ala Glu Lys Val Glu Gln Tyr Lys Ser Pro Arg Val Val Gly Thr
 1 5 10 15
 Val Ala Ser Leu Leu Leu Val Leu Pro Phe Lys Thr Val Trp His Leu
 20 25 30
 Ser Met Thr Arg Ile Ser Thr Gly Arg Leu Lys Tyr Phe Leu Cys Ala
 35 40 45
 Glu

<210> 140
 <211> 132
 <212> PRT

<213> Homo sapiens

<400> 140

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Ser Cys Glu Arg Arg Gly Phe Ile Met Ala Asp Asp Leu Lys Arg Phe
 1           5           10           15

Leu Tyr Lys Lys Leu Pro Ser Val Glu Gly Leu His Ala Ile Val Val
           20           25           30

Ser Asp Arg Asp Gly Val Pro Val Ile Lys Val Ala Asn Asp Asn Ala
           35           40           45

Pro Glu His Ala Leu Arg Pro Gly Phe Leu Ser Thr Phe Ala Leu Ala
 50           55           60

Thr Asp Gln Gly Ser Lys Leu Gly Leu Ser Lys Asn Lys Ser Ile Ile
 65           70           75           80

Cys Tyr Tyr Asn Thr Tyr Gln Val Val Gln Phe Asn Arg Leu Pro Leu
           85           90           95

Val Val Ser Phe Ile Ala Ser Ser Ser Ala Asn Thr Gly Leu Ile Val
           100           105           110

Ser Leu Glu Lys Glu Leu Ala Pro Leu Phe Glu Glu Leu Arg Gln Val
 115           120           125

Val Glu Val Ser
 130

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<210> 141

<211> 126

<212> PRT

<213> Homo sapiens

<400> 141

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Gln Met Ile Leu Leu Phe Leu Glu Ser Pro Ser Leu Leu Pro Trp Ser
 1           5           10           15

Val Ala Arg Ala Lys Val Asp Lys Lys Pro Gly Arg Lys Ala Cys Ser
           20           25           30

Gly Ala Leu Ser Phe Ala Thr Leu Ile Thr Gly Thr Pro Ser Leu Ser
 35           40           45

Asp Thr Thr Met Ala Trp Ser Pro Ser Thr Leu Gly Asn Phe Leu Tyr
 50           55           60

Lys Asn Arg Phe Arg Ser Ser Ala Met Met Asn Pro Leu Leu Ser Gln
 65           70           75           80

Asp Gln Ser Pro Arg Leu Gly Phe Leu Gly Cys Leu Val Leu Ser Ala
           85           90           95

Val Thr Ser Gly Thr Ala Leu Lys Thr Gly Ser Ser Ser Ser His Arg
 100           105           110

```

His Met Ile His Asp Leu Val Cys Ala Pro Gly Ser Thr Phe
 115 120 125

<210> 142
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 142
 Ser Ala Val Lys Arg Gly Trp Asp Leu Asn Met Ala Ala Val Val Ala
 1 5 10 15
 Ala Thr Ala Leu Lys Gly Arg Gly Ala Arg Asn Ala Arg Val Leu Arg
 20 25 30
 Gly Ile Leu Ala Gly Ala Thr Ala Asn Lys Ala Ser His Asn Arg Thr
 35 40 45
 Arg Ala Leu Gln Ser His Ser Ser Pro Glu Gly Lys Glu Glu Pro Glu
 50 55 60
 Pro Leu Ser Pro Glu Leu Glu Tyr Ile Pro Arg Lys Arg Gly Lys Asn
 65 70 75 80
 Pro Met Lys Ala Val Gly Leu Ala Trp Ala Ile Gly Phe Pro Cys Gly
 85 90 95
 Ile Leu Leu Phe Ile Leu Thr Lys Arg Glu Val Asp Lys Asp Arg Val
 100 105 110
 Lys Gln Met Lys Ala Arg Gln Asn Met Arg Leu Ser Asn Thr Gly Glu
 115 120 125
 Tyr Glu Ser Gln Arg Phe Arg Ala Ser Ser Gln Ser Ala Pro Ser Pro
 130 135 140
 Asp Val Gly Ser Gly Val Gln Thr
 145 150

<210> 143
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 143
 Glu Gly Arg Ser Ala Pro Gln Val Cys Thr Pro Asp Pro Thr Ser Gly
 1 5 10 15
 Asp Gly Ala Leu Trp Glu Glu Ala Leu Asn Leu Trp Leu Ser Tyr Ser
 20 25 30
 Pro Val Leu Asp Asn Arg Met Phe Cys Arg Ala Phe Ile Cys Phe Thr
 35 40 45
 Arg Ser Leu Ser Thr Ser Arg Leu Val Arg Met Lys Arg Arg Ile Pro
 50 55 60

Gln Gly Lys Pro Met Ala Gln Ala Ser Pro Thr Ala Phe Met Gly Phe
 65 70 75 80

Leu Pro Leu Phe Leu Gly Met Tyr Ser Ser Ser Gly Asp Arg Gly Ser
 85 90 95

Gly Ser Ser Leu Pro Ser Gly Glu Leu Trp Leu Cys Arg Ala Arg Val
 100 105 110

Leu Leu

<210> 144

<211> 267

<212> PRT

<213> Homo sapiens

<400> 144

Glu Asp Glu Val Glu Glu Glu Ser Thr Ala Leu Gln Lys Thr Asp Lys
 1 5 10 15

Lys Glu Ile Leu Lys Lys Ser Glu Lys Asp Thr Asn Ser Lys Val Lys
 20 25 30

Pro Lys Gly Lys Val Arg Trp Thr Gly Ser Arg Thr Arg Gly Arg Trp
 35 40 45

Lys Tyr Ser Ser Asn Asp Glu Ser Glu Gly Ser Gly Ser Glu Lys Ser
 50 55 60

Ser Ala Ala Ser Glu Glu Glu Glu Glu Lys Glu Ser Glu Glu Ala Ile
 65 70 75 80

Leu Ala Asp Asp Asp Glu Pro Cys Lys Lys Cys Gly Leu Pro Asn His
 85 90 95

Pro Glu Leu Ile Leu Leu Cys Asp Ser Cys Asp Ser Gly Tyr His Thr
 100 105 110

Ala Cys Leu Arg Pro Pro Leu Met Ile Ile Pro Asp Gly Glu Trp Phe
 115 120 125

Cys Pro Pro Cys Gln His Lys Leu Leu Cys Glu Lys Leu Glu Glu Gln
 130 135 140

Leu Gln Asp Leu Asp Val Ala Leu Lys Lys Lys Glu Arg Ala Glu Arg
 145 150 155 160

Arg Lys Glu Arg Leu Val Tyr Val Gly Ile Ser Ile Glu Asn Ile Ile
 165 170 175

Pro Pro Gln Glu Pro Asp Phe Ser Glu Asp Gln Glu Glu Lys Lys Lys
 180 185 190

Asp Ser Lys Lys Ser Lys Ala Asn Leu Leu Glu Arg Arg Ser Thr Arg
 195 200 205

Thr Arg Lys Cys Ile Ser Tyr Arg Phe Asp Glu Phe Asp Glu Ala Ile
 210 215 220

Asp Glu Ala Ile Glu Asp Asp Ile Lys Glu Ala Asp Gly Gly Gly Val
 225 230 235 240

Gly Arg Gly Lys Asp Ile Ser Thr Ile Thr Gly His Arg Gly Lys Asp
 245 250 255

Ile Ser Thr Ile Leu Asp Glu Lys Ile Ile Thr
 260 265

<210> 145

<211> 185

<212> PRT

<213> Homo sapiens

<400> 145

Ser Ser Glu Lys Ser Gly Ser Cys Gly Gly Met Met Phe Ser Ile Leu
 1 5 10 15

Ile Pro Thr Tyr Thr Lys Arg Ser Phe Leu Arg Ser Ala Arg Ser Phe
 20 25 30

Phe Phe Lys Ala Thr Ser Lys Ser Cys Asn Cys Ser Ser Asn Phe Ser
 35 40 45

Gln Ser Ser Leu Cys Trp Gln Gly Gly Gln Asn His Ser Pro Ser Gly
 50 55 60

Met Ile Ile Arg Gly Gly Arg Arg Gln Ala Val Trp Tyr Pro Leu Ser
 65 70 75 80

Gln Glu Ser His Arg Arg Ile Ser Ser Gly Trp Phe Gly Arg Pro His
 85 90 95

Phe Leu His Gly Ser Ser Ser Ser Ala Arg Met Ala Ser Ser Leu Ser
 100 105 110

Phe Ser Ser Ser Ser Ser Glu Ala Ala Asp Asp Phe Ser Leu Pro Asp
 115 120 125

Pro Ser Leu Ser Ser Leu Leu Glu Tyr Phe His Leu Pro Arg Val Arg
 130 135 140

Glu Pro Val His Arg Thr Leu Pro Leu Gly Phe Thr Leu Glu Phe Val
 145 150 155 160

Ser Phe Ser Asp Phe Phe Lys Ile Ser Phe Leu Ser Val Phe Cys Lys
 165 170 175

Ala Val Asp Ser Ser Ser Thr Ser Ser
 180 185

<210> 146

<400> 146
000

<210> 147

<400> 147
000

<210> 148
<211> 134
<212> PRT
<213> Homo sapiens

<400> 148
Lys Arg Gln Pro Thr Ser Ala Met Lys Asp Pro Ser Arg Ser Ser Thr
1 5 10 15
Ser Pro Ser Ile Ile Asn Glu Asp Val Ile Ile Asn Gly His Ser His
20 25 30
Glu Asp Asp Asn Pro Phe Ala Glu Tyr Met Trp Met Glu Asn Glu Glu
35 40 45
Glu Phe Asn Arg Gln Ile Glu Glu Glu Leu Trp Glu Glu Glu Phe Ile
50 55 60
Glu Arg Cys Phe Gln Glu Met Leu Glu Glu Glu Glu Glu His Glu Trp
65 70 75 80
Phe Ile Pro Ala Arg Asp Leu Pro Gln Thr Met Asp Gln Ile Gln Asp
85 90 95
Gln Phe Asn Asp Leu Val Ile Ser Asp Gly Ser Ser Leu Glu Asp Leu
100 105 110
Val Val Lys Ser Asn Leu Asn Pro Asn Ala Lys Glu Phe Val Pro Gly
115 120 125
Val Lys Tyr Gly Asn Ile
130

<210> 149
<211> 135
<212> PRT
<213> Homo sapiens

<400> 149
His Ser Asp Lys Arg Ala Phe Thr Ile Lys Ser Ser Asn Thr Ala Phe
1 5 10 15
Thr Val Trp Lys Leu Cys Tyr Ile His Gln Lys Arg Ala Pro Ser Thr
20 25 30
Gln Ile Phe Pro Tyr Phe Thr Pro Gly Thr Asn Ser Phe Ala Phe Gly
35 40 45

Phe Arg Leu Leu Leu Thr Thr Arg Ser Ser Arg Glu Glu Pro Ser Leu
 50 55 60

Ile Thr Arg Ser Leu Asn Trp Ser Trp Ile Trp Ser Ile Val Cys Gly
 65 70 75 80

Arg Ser Arg Ala Gly Ile Asn His Ser Cys Ser Ser Ser Ser Ser Ser
 85 90 95

Ile Ser Trp Lys Gln Arg Ser Ile Asn Ser Ser Ser His Asn Ser Ser
 100 105 110

Ser Ile Cys Leu Leu Asn Ser Ser Ser Phe Ser Ile His Met Tyr Ser
 115 120 125

Ala Asn Gly Leu Ser Ser Ser
 130 135

<210> 150

<211> 58

<212> PRT

<213> Homo sapiens

<400> 150

Leu Val Ser Gly Ala Asn Gln Cys Gly Ser Cys Asn Ser Lys Ser Phe
 1 5 10 15

Leu Thr Lys Ala Trp Tyr Tyr Arg Val Gly Phe Arg Phe Phe Arg Gly
 20 25 30

Gly Leu Phe Asp Phe Asp Phe Phe Phe Phe Tyr Val Ile Phe Gly Lys
 35 40 45

Thr His Ser Glu Leu Tyr Leu Val Ser Thr
 50 55

<210> 151

<211> 61

<212> PRT

<213> Homo sapiens

<400> 151

Phe Phe Val Leu Lys Ser Leu Leu Val Gly Ala Cys Tyr Trp Glu Gln
 1 5 10 15

Val Phe Val Gln Lys Leu Gln Ser Glu Ser Leu Cys Ile Thr Glu Thr
 20 25 30

Leu Phe Ile Thr Ser Leu Leu Ser Leu Pro Gln Lys Thr Val Gly Leu
 35 40 45

Asn Lys Ile Ile Cys Ile Leu Ile Tyr Leu Lys Cys Leu
 50 55 60

<210> 152
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 152
 Ser Ala Cys Lys Phe Leu Arg Asp Leu Pro Leu Leu Thr Val Asp Gln
 1 5 10 15
 Leu Met Tyr Thr Cys Ile Ile Lys Ala Leu Asn Lys Ser Leu Trp Leu
 20 25 30
 Ile Thr Ala Lys Met Gly Thr Arg His Leu Leu Cys Val Leu Val Thr
 35 40 45
 Ala Val Ala Leu Arg Ala Val Arg Pro Cys Leu Ile
 50 55 60

<210> 153
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 153
 Lys Arg Asp Ile Ile Leu Asn Val Phe Ser Gln Arg Ser His Lys Arg
 1 5 10 15
 Lys Lys Asn Gln Asn Gln Ile Asn His His Glu Lys Asn Glu Thr Pro
 20 25 30
 His Gly Asn Thr Lys Leu Trp Leu Gly Ser Ser Tyr Tyr Tyr Ser Ser
 35 40 45
 His Ile Gly Trp Arg Arg Lys Pro
 50 55

<210> 154

<400> 154
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<210> 155
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 155
 Ile Pro Val His Arg Leu His Gly Arg Ala Asp Pro Leu Gly Trp Ser
 1 5 10 15
 Ile Val Ser Asp Leu Ile Thr Ser Gly Leu Gly Ala Gly Val Leu Arg
 20 25 30
 Gly Leu Pro Ala Arg Arg Leu His Ser Leu Gly Arg Arg Val Leu Gly
 35 40 45

Arg Pro Gly Val Trp Leu Glu Arg Leu Gly His Gly Arg Arg Asp Ala
 50 55 60
 Leu Gly Ala Trp Ser Ala Ala Gln Arg Pro Arg Thr Pro Gly Arg Pro
 65 70 75 80
 Ala Cys Val Cys Ala Pro Arg Arg Gly Pro Glu Ser Pro Ser Ala Asp
 85 90 95
 Pro Val Pro Pro Pro Gly Arg Ala Gly Asp Pro Ser Pro Pro Asp Ala
 100 105 110
 Ser Ala Ser Gly Pro Arg Gly Gly Ala Ala Thr Lys Ala Gly Pro Ala
 115 120 125
 His Asp Pro Gly Gln Leu Arg Pro Glu Leu Arg Val Leu Pro Pro Pro
 130 135 140
 Pro Arg Gly Asp Arg Glu
 145 150

<210> 156
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 156
 Leu Pro Val Ala Ala Gly Gly Arg Gly Gln Asp Ala Gln Leu Arg Pro
 1 5 10 15
 Glu Leu Ser Gly Val Val Ser Arg Pro Arg Leu Gly Gly Gly Ala Pro
 20 25 30
 Ser Arg Ser Arg Gly Arg Arg Ile Gly Trp Ala Arg Val Ser Ser Pro
 35 40 45
 Ala Gly Arg Arg Asp Arg Val Cys Gly Gly Gly Leu Gly Ala Ser Ala
 50 55 60
 Gly Arg Ala His Ala Gly Gly Ala Ala Arg Gly Ala Gly Pro Leu Arg
 65 70 75 80
 Gly

<210> 157
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 157
 Pro Gly Ser Gln Ser Val Thr Pro Pro Met Ala Glu Pro Leu Gln Pro
 1 5 10 15
 Asp Pro Gly Ala Ala Glu Asp Ala Ala Ala Gln Ala Val Glu Thr Pro
 20 25 30

Gly Trp Lys Ala Pro Glu Asp Ala Gly Pro Gln Pro Gly Ser Tyr Glu
 35 40 45
 Ile Arg His Tyr Gly Pro Ala Lys Trp Val Ser Thr Ser Val Glu Ser
 50 55 60
 Met Asp Trp Asp Ser Ala Ile Gln Thr Gly Phe Thr Lys Leu Asn Ser
 65 70 75 80
 Tyr Ile Gln Gly Lys Asn Glu Lys Glu Met Lys Ile Lys Met Thr Ala
 85 90 95
 Pro Val Thr Ser Tyr Val Glu Pro Gly Ser Gly Pro Phe Ser Glu Ser
 100 105 110
 Thr Ile Thr Ile Ser Leu Tyr Ile Pro Ser Glu Gln Gln Phe Asp Pro
 115 120 125
 Pro Arg Pro Leu Glu Ser Asp Val Phe Ile Glu Asp Arg Ala Glu Met
 130 135 140
 Thr Val Phe Val Arg Ser Phe Asp Gly Phe Ser Ser Ala Gln Lys Asn
 145 150 155 160
 Gln Glu Gln Leu Leu Thr Leu Ala Ser Ile Leu Arg Glu Asp Gly Lys
 165 170 175
 Val Phe Asp Glu Lys Val Tyr Tyr Thr Ala Gly Tyr Asn Ser Pro Val
 180 185 190
 Lys Leu Leu Asn Arg Asn Asn Glu Val Trp Leu Ile Gln Lys Asn Glu
 195 200 205
 Pro Thr Lys Glu Asn Glu
 210

<210> 158

<211> 62

<212> PRT

<213> Homo sapiens

<400> 158

Pro Asn Phe Tyr Arg Gly Phe Ile Phe Asn Leu Thr Met Cys Gly Gly
 1 5 10 15
 Leu Ser Cys Leu Asn Leu Phe Arg Ala Val Cys Ser Val His Gln Met
 20 25 30
 Gly Arg Ser Gly Met Gly His Leu Arg Pro Phe Arg Ser Gly Leu Asn
 35 40 45
 Arg Met Leu Glu Pro Arg Leu Asp Ser Asp Thr Leu Arg Phe
 50 55 60

<210> 159

<211> 104
 <212> PRT
 <213> Homo sapiens

<400> 159

Ile	His	Leu	Pro	Lys	Lys	Leu	Ile	Ser	Phe	Tyr	Leu	Arg	Gly	Glu	Val
1				5					10					15	
Gln	Phe	Ser	Phe	Gly	Ser	Ser	Glu	Ser	Lys	His	Leu	Ile	Cys	Trp	Val
			20					25					30		
Trp	Lys	Thr	Pro	Phe	Leu	Ala	Phe	Tyr	Val	Leu	Ser	His	Asn	Asn	Ser
		35					40					45			
Ile	Lys	Gln	Glu	Gly	Lys	Gln	Lys	Thr	Lys	Lys	Lys	Lys	Gly	Lys	Lys
	50					55					60				
Lys	Asn	Leu	His	Gly	Leu	Val	Ser	Leu	Thr	Lys	His	Val	Gly	Ala	Val
	65				70					75					80
Cys	Leu	Gly	Gly	Ala	Gly	Tyr	Arg	Thr	Cys	Gln	Cys	Leu	Gly	Phe	Ser
				85					90					95	
Ile	Asn	Leu	Ala	Arg	Asp	Ile	Lys								
							100								

<210> 160
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 160

Ser	Leu	Leu	Ile	Ser	Arg	Lys	Ile	Lys	Gln	Asn	Thr	Ser	Pro	Ala	Arg
1				5					10					15	
Leu	Thr	Cys	Val	Tyr	Ile	Tyr	Ile	Lys	Gln	Arg	Ala	Thr	Pro	Thr	Ser
			20					25					30		
Gln	Gln	Leu	Gly	Glu	Ile	Ser	Ala	Val	His	Ala	Val	Val	Cys	Gln	Phe
		35					40					45			
Gly	Glu	Ile	Thr	Pro	Trp	Lys	Asn	Trp	Lys	Asn	Leu	Leu	Ala	Gly	Lys
	50					55					60				
Asn	Ser	Phe	Ile	Cys	Ile	Lys	Ser	Val	Leu	Gln	Lys	Asn	Pro	Cys	Gly
	65				70					75					80

<210> 161

<400> 161
 000

<210> 162

<400> 162

000

<210> 163
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 163
 Pro Ser Ile Asp Leu Glu Ala Glu Glu Ser Gln Arg Leu Leu Lys Val
 1 5 10 15
 Val Met Trp Phe Ser Phe Lys Lys Leu Leu Phe Leu Glu Ser Arg Ile
 20 25 30
 Tyr Gly Tyr Asn Val Cys Ser Leu Phe Val His Lys Ile Lys Pro Phe
 35 40 45
 Lys Lys Leu Lys Lys Lys Lys Lys Arg Gly Glu Lys Lys Arg Glu Lys
 50 55 60
 Gly Lys Gly Lys Arg Lys Arg Arg Gly Glu Glu
 65 70 75

<210> 164
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 164
 Lys Tyr Leu Thr Leu Pro Tyr Lys Leu Leu Val Pro Phe Cys Ile Pro
 1 5 10 15
 Pro Ser Ile Thr Leu Thr Lys Gly Ile Phe Tyr Cys Lys Glu Tyr Phe
 20 25 30
 Ile Leu Tyr Ile Thr Ser His Glu Phe Leu Pro Leu Val Thr Ile Gln
 35 40 45
 Met Leu Pro Ser Ala Ile Ile Gln Ile Ala Gln Pro Phe Tyr Val His
 50 55 60
 Asn Ser Leu Leu
 65

<210> 165
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 165
 Leu Phe Phe Leu Phe Arg Tyr His Thr Val Pro Leu Pro Pro Lys Gly
 1 5 10 15
 Arg Val Leu Ile His Trp Met Thr Leu Cys Gln Thr Gln Met Lys Leu
 20 25 30

Met Ala Ile Pro Leu Val Phe Gln Ile Met Phe Gly Ile Leu Asn Gly
 35 40 45

Leu Tyr His Tyr Ala Val Phe Glu Glu Thr Leu Glu Lys Thr Ile His
 50 55 60

Glu Glu
 65

<210> 166

<211> 159

<212> PRT

<213> Homo sapiens

<400> 166

Thr Arg Leu Lys Gly Asp Arg Gly Gly Val His Phe Leu Lys Ala Leu
 1 5 10 15

Arg Arg Gly Gly Leu Arg Ala Ser Leu Leu Tyr Leu Leu Glu Lys Tyr
 20 25 30

Arg Leu Val Phe Leu Leu Ser Ile Cys Val Arg Gly Met Val Ser Ser
 35 40 45

Val Lys Ser Phe Leu Val Gly Glu Gln Leu Leu Ser Ile Ser Glu Pro
 50 55 60

Arg Phe Lys Met Ser Val Cys Lys Cys Ser Phe Leu Ser Thr Thr Ser
 65 70 75 80

Thr Phe Val Pro Ile Ser Ser Asp Ser Lys Lys Val Ser Ser Tyr Phe
 85 90 95

Ser Leu Cys Ser Glu Ser Leu Ala Glu Gln Asn Leu Phe Met Met Pro
 100 105 110

Glu Val Phe Cys Ser Glu Gln Lys Phe Asp Pro Glu Leu Asn Asp Leu
 115 120 125

Ser Phe Phe Phe Thr Arg Leu Phe Ser Ser Leu Val Thr Leu Arg Val
 130 135 140

Ser Pro His Ala Pro Ala Ser Glu Met Gln Thr Val Leu Ser Ser
 145 150 155

<210> 167

<211> 439

<212> PRT

<213> Homo sapiens

<400> 167

Lys Ser Leu Leu Phe Thr Ser Ser Lys Phe Pro Leu Ile Ser Phe Ser
 1 5 10 15

Ser Pro Gln Gly Leu Lys Phe Arg Ser Lys Ser Ser Leu Ala Asn Tyr

20					25					30					
Leu	His	Lys	Asn	Gly	Glu	Thr	Ser	Leu	Lys	Pro	Glu	Asp	Phe	Asp	Phe
		35					40					45			
Thr	Val	Leu	Ser	Lys	Arg	Gly	Ile	Lys	Ser	Arg	Tyr	Lys	Asp	Cys	Ser
	50					55					60				
Met	Ala	Ala	Leu	Thr	Ser	His	Leu	Gln	Asn	Gln	Ser	Asn	Asn	Ser	Asn
65						70					75				80
Trp	Asn	Leu	Arg	Thr	Arg	Ser	Lys	Cys	Lys	Lys	Asp	Val	Phe	Met	Pro
				85					90					95	
Pro	Ser	Ser	Ser	Ser	Glu	Leu	Gln	Glu	Ser	Arg	Gly	Leu	Ser	Asn	Phe
			100					105					110		
Thr	Ser	Thr	His	Leu	Leu	Leu	Lys	Glu	Asp	Glu	Gly	Val	Asp	Asp	Val
		115					120					125			
Asn	Phe	Arg	Lys	Val	Arg	Lys	Pro	Lys	Gly	Lys	Val	Thr	Ile	Leu	Lys
	130					135					140				
Gly	Ile	Pro	Ile	Lys	Lys	Thr	Lys	Lys	Gly	Cys	Arg	Lys	Ser	Cys	Ser
145						150					155				160
Gly	Phe	Val	Gln	Ser	Asp	Ser	Lys	Arg	Glu	Ser	Val	Cys	Asn	Lys	Ala
			165						170					175	
Asp	Ala	Glu	Ser	Glu	Pro	Val	Ala	Gln	Lys	Ser	Gln	Leu	Asp	Arg	Thr
			180					185					190		
Val	Cys	Ile	Ser	Asp	Ala	Gly	Ala	Cys	Gly	Glu	Thr	Leu	Ser	Val	Thr
		195					200					205			
Ser	Glu	Glu	Asn	Ser	Leu	Val	Lys	Lys	Lys	Glu	Arg	Ser	Leu	Ser	Ser
	210					215					220				
Gly	Ser	Asn	Phe	Cys	Ser	Glu	Gln	Lys	Thr	Ser	Gly	Ile	Ile	Asn	Lys
225						230					235				240
Phe	Cys	Ser	Ala	Lys	Asp	Ser	Glu	His	Asn	Glu	Lys	Tyr	Glu	Asp	Thr
				245					250					255	
Phe	Leu	Glu	Ser	Glu	Glu	Ile	Gly	Thr	Lys	Val	Glu	Val	Val	Glu	Arg
			260					265					270		
Lys	Glu	His	Leu	His	Thr	Asp	Ile	Leu	Lys	Arg	Gly	Ser	Glu	Met	Asp
		275					280					285			
Asn	Asn	Cys	Ser	Pro	Thr	Arg	Lys	Asp	Phe	Thr	Glu	Asp	Thr	Ile	Pro
		290				295					300				
Arg	Thr	Gln	Ile	Glu	Arg	Arg	Lys	Thr	Ser	Leu	Tyr	Phe	Ser	Ser	Lys
305						310					315				320
Tyr	Asn	Lys	Glu	Ala	Leu	Ser	Pro	Pro	Arg	Arg	Lys	Ala	Phe	Lys	Lys
			325						330					335	

Trp Thr Pro Pro Arg Ser Pro Phe Asn Leu Val Gln Glu Thr Leu Phe
 340 345 350
 His Asp Pro Trp Lys Leu Leu Ile Ala Thr Ile Phe Leu Asn Arg Thr
 355 360 365
 Ser Gly Lys Met Ala Ile Pro Val Leu Trp Lys Phe Leu Glu Lys Tyr
 370 375 380
 Pro Ser Ala Glu Val Ala Arg Thr Ala Asp Trp Arg Asp Val Ser Glu
 385 390 395 400
 Leu Leu Lys Pro Leu Gly Leu Tyr Asp Leu Arg Ala Lys Thr Ile Val
 405 410 415
 Lys Phe Ser Asp Glu Tyr Leu Thr Lys Gln Trp Lys Tyr Pro Ile Glu
 420 425 430
 Leu His Gly Ile Gly Ala Pro
 435

<210> 168
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 168
 Asp Cys Gly Lys Val Gln Thr Gln Met Gln Phe Ala Leu Thr Asn Phe
 1 5 10 15
 Leu Gly Leu Ile Ser Leu Cys Lys Thr Pro Val Leu Ser Phe Leu Pro
 20 25 30
 Gln Asp Arg Val Gln Ser Phe Leu Lys His Ala Leu Arg Cys Pro His
 35 40 45
 Leu Arg His Cys Phe Val Asp Thr Leu Lys Gly Val His Lys Ala Lys
 50 55 60
 Lys Ser Asp Gln Met Leu Arg Ala Ser Asn Leu Tyr Leu Thr Thr Trp
 65 70 75 80
 Thr Trp His Trp Gln Lys Ser Leu Gln His
 85 90

<210> 169
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 169
 Ser Asp Phe Cys Gln Cys His Val Gln Val Val Arg Tyr Lys Leu Leu
 1 5 10 15
 Ala Leu Ser Ile Trp Ser Asp Phe Phe Ala Leu Trp Thr Pro Leu Arg

20	25	30
Val Ser Thr Lys Gln Cys Leu Arg Cys Gly His Leu Arg Ala Cys Phe		
35	40	45
Arg Lys Leu Cys Thr Leu Ser Cys Gly Arg Lys Glu Arg Thr Gly Val		
50	55	60
Leu His Lys Glu Ile Ser Pro Arg Lys Leu Val Asn Ala Asn Cys Ile		
65	70	75
		80
Cys Val Cys Thr Leu Pro Gln Ser Tyr Ile Val Phe		
	85	90

<210> 170
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 170
Ala Asp Ser His Gln Asn Tyr Ile Pro Trp Pro Pro Ala Cys Val Leu
1 5 10 15
Leu Ala Arg Pro Trp Leu Ala Ser Leu Thr Arg Glu Lys Asp Leu Gln
20 25 30
Lys Ile Arg Leu Trp Asp His Phe Val Cys Ala Leu Gly Met Thr Phe
35 40 45
Phe Pro Thr Pro Gly Lys Pro Leu Gly Leu Ser Glu Thr Leu Trp Leu
50 55 60
Ala Asn His Met Val Ser Leu Lys Val Glu Arg Leu Ser Asn Pro Pro
65 70 75 80
Ile Pro Arg Glu Phe Gln Ser Val Asp Val Ile
85 90

<210> 171
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 171
Asn Gly Gly Leu Asn Ala His Leu Ala Ser Ala Ser Glu Phe Asp His
1 5 10 15
Ser Gly Val Gln Leu Ile Glu Arg Glu Glu Glu Ile Cys Ile Phe Tyr
20 25 30
Glu Lys Ile Asn Ile Gln Glu Lys Met Lys Leu Asn Gly Glu Ile Glu
35 40 45
Ile His Leu Leu Glu Glu Lys Ile Gln Phe Leu Lys Met Lys Ile Ala
50 55 60

Glu Lys Gln Arg Gln Ile Cys Val Thr Gln Lys Leu Leu Pro Ala Lys
 65 70 75 80

Arg Ser Leu Asp Ala Asp Leu Ala Val Leu Gln Ile Gln Phe Ser
 85 90 95

<210> 172

<211> 90

<212> PRT

<213> Homo sapiens

<400> 172

Lys Thr Glu Phe Gly Ala Gln Leu Gly Arg His Pro Gly Thr Ser Trp
 1 5 10 15

Leu Ala Val Ile Ser Gly Ser His Lys Phe Val Phe Ala Ser Gln Gln
 20 25 30

Ser Ser Phe Ser Gly Ile Gly Ser Phe Leu Pro Val Asp Val Phe Gln
 35 40 45

Phe Leu His Leu Val Ser Ser Ser Leu Gly Tyr Leu Phe Phe His Lys
 50 55 60

Lys Cys Ile Phe Leu Leu Pro Ala Leu Ser Ala Glu Arg His Tyr Gly
 65 70 75 80

Gln Ile Gln Arg Gln Arg Leu Ser Gly His
 85 90

<210> 173

<211> 102

<212> PRT

<213> Homo sapiens

<400> 173

Ala Val Arg Ser Arg Gly Ala Leu Ser Leu Ser Val Gly Ala Ala Cys
 1 5 10 15

Gly Leu Val Ala Leu Trp Gln Arg Arg Arg Gln Asp Ser Gly Thr Met
 20 25 30

Ser Gly Phe Ser Thr Glu Glu Arg Ala Ala Pro Phe Ser Leu Glu Tyr
 35 40 45

Arg Val Phe Leu Lys Asn Glu Lys Gly Gln Tyr Ile Ser Pro Phe His
 50 55 60

Asp Ile Pro Ile Tyr Ala Asp Lys Val Arg His Pro Cys Phe Trp Thr
 65 70 75 80

Gln Ser Leu Tyr Ser Asp Gln Leu Val Leu His Met Asn Phe Leu Ile
 85 90 95

Cys Leu Ser Thr Ser Ala
 100

<210> 174
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 174
 Val Lys Arg Leu Cys Pro Lys Thr Arg Met Pro Tyr Leu Ile Cys Ile
 1 5 10 15
 Asn Trp Asn Ile Met Lys Trp Arg Tyr Ile Leu Ser Phe Leu Ile Phe
 20 25 30
 Glu Glu Asp Ser Val Leu Gln Gly Glu Gly Arg Gly Ala Leu Leu Gly
 35 40 45
 Ala Glu Ala Ala His Ser Ala Gly Val Leu Pro Pro Pro Leu Pro Gln
 50 55 60
 Ser His Gln Pro Ala Arg Gly Ala Asp
 65 70

<210> 175
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 175
 Arg Arg Gln Arg Lys Ala Glu Pro Gly Ala Cys Ala Leu Gly Arg Val
 1 5 10 15
 Gly Ser Glu Cys Ile Pro Glu Pro Gly Ala Arg Arg Thr Ala Gln Ala
 20 25 30
 Ala Gly Leu Arg Ser Val Ser Gly Ala Ala Asn Thr Lys Val Arg Glu
 35 40 45
 Leu Lys His Phe Arg Phe Leu Gly Leu Leu Arg Ser Cys Arg Ser Glu
 50 55 60
 Met Glu Val Asp Ala Pro Gly Val Asp Gly Arg Asp Gly Leu Arg Glu
 65 70 75 80
 Arg Arg Gly Phe Ser Glu Gly Gly Arg Gln Asn Phe Asp Val Arg Pro
 85 90 95
 Gln Ser Gly Ala Asn Gly Leu Pro Lys His Ser Tyr Trp Leu Asp Leu
 100 105 110
 Trp Leu Phe Ile Leu Phe Asp Val Val Val Phe Leu Phe Val Tyr Phe
 115 120 125
 Leu Pro
 130

<210> 176
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 176
 Ile Leu Lys Met Ala Thr Asn Phe Leu Asn Lys Glu Asp Arg Thr Leu
 1 5 10 15
 Asn Arg Arg Ile Ser His Leu Gln Gly Thr Leu Pro Phe Ile Leu His
 20 25 30
 Phe Val Thr Asn Leu Gln Asn Ser Ile Asn Trp Val Gly Phe His Pro
 35 40 45
 Phe Leu Ala Lys Phe Leu Lys Leu Asn Pro Leu Val Arg Val
 50 55 60

<210> 177
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 177
 Ala Val Tyr Cys Ile Leu His Gln Gln Lys Val Leu Arg Leu Tyr Lys
 1 5 10 15
 Arg Ala Leu Arg His Leu Glu Ser Trp Cys Val Gln Arg Asp Lys Tyr
 20 25 30
 Arg Tyr Phe Ala Cys Leu Met Arg Ala Arg Phe Glu Glu His Lys Asn
 35 40 45
 Glu Lys Asp Met Ala Lys Ala Thr Gln Leu Leu Lys Glu Ala Glu Glu
 50 55 60
 Glu Phe Trp Tyr Arg Gln His Pro Gln Pro Tyr Ile Phe Pro Asp Ser
 65 70 75 80
 Pro Gly Gly Thr Ser Tyr Glu Arg Tyr Asp Cys Tyr Lys Val Pro Glu
 85 90 95
 Trp Cys Leu Asp Asp Trp His Pro Ser Glu Lys Ala Met Tyr Pro Asp
 100 105 110
 Tyr Phe Ala Lys Arg Glu Gln Trp Lys Lys Leu Arg Arg Glu Ser Trp
 115 120 125
 Glu Arg Glu Val Lys Gln Leu Gln Glu Glu Thr Pro Pro Gly Gly Pro
 130 135 140
 Leu Thr Glu Ala Leu Pro Pro Ala Arg Lys Glu Gly Asp Leu Pro Pro
 145 150 155 160
 Leu Trp Trp Tyr Ile Val Thr Arg Pro Arg Glu Arg Pro Met
 165 170

<210> 178
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 178
 Pro Leu Val Pro Ser Phe Pro Ser Ala Val Ser Ser Thr Val Leu Ser
 1 5 10 15
 Trp Gln Ser Asn Gln Asp Thr Leu Pro Ser Gln Lys Asp Ala Ser His
 20 25 30
 Leu Ser Thr Ile Leu Gly Pro Cys Ser Asn Arg Ile Ser His Arg Arg
 35 40 45
 Cys Pro Gln Glu Ser Gln Gly Arg Cys Met Ala Val Asp Ala Asp Gly
 50 55 60
 Thr Arg Ile Leu Pro Arg Pro Pro Ser Ala Ala Gly Trp Pro Ser Pro
 65 70 75 80
 Tyr Pro Phe His Ser Tyr Val Leu Gln Thr Gly Leu Ser Ser Asn Lys
 85 90 95
 Gln Ser Ile Gly Ile Cys Leu Ser Gly Arg Thr Thr Thr Arg Gly Gly
 100 105 110
 Val Ala Pro Ala Tyr Lys Ala Ala Thr Pro Phe Ala Asp Val Val Cys
 115 120 125
 Asn Ile Arg
 130

<210> 179
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 179
 Leu Met Met Thr Ile Tyr Ala Leu Ser Asn Glu Phe Ala Phe Lys Ile
 1 5 10 15
 Asn Glu Glu Gln Leu Ser Phe Phe Pro Leu Leu Ser Val Gln Leu Trp
 20 25 30
 His Ala Gln Arg Phe Leu Leu Asp Ser Ser Trp Ser Gly Val Ile Pro
 35 40 45
 Phe Phe Phe Ser Cys Ser Cys Leu Pro Phe Leu Tyr Pro Pro Lys Trp
 50 55 60
 Arg Gln Ile His Asp Leu Lys Asp Thr Gln Tyr Leu Leu Asn Ser Ser
 65 70 75 80

<210> 180

<211> 140
 <212> PRT
 <213> Homo sapiens

<400> 180
 Lys Val Leu Arg Lys Leu Lys Gly Pro Glu Glu Ala Ser Gly Gln Met
 1 5 10 15
 Ala Gly Ala Gly Pro Thr Met Leu Leu Arg Glu Glu Asn Gly Cys Cys
 20 25 30
 Ser Arg Arg Gln Ser Ser Ser Ser Ala Gly Asp Ser Asp Gly Glu Arg
 35 40 45
 Glu Asp Ser Ala Ala Glu Arg Ala Arg Gln Gln Leu Glu Ala Leu Leu
 50 55 60
 Asn Lys Thr Met Arg Ile Arg Met Thr Asp Gly Arg Thr Leu Val Gly
 65 70 75 80
 Cys Phe Leu Cys Thr Asp Arg Asp Cys Asn Val Ile Leu Gly Ser Ala
 85 90 95
 Gln Glu Phe Leu Lys Pro Ser Asp Ser Phe Ser Ala Gly Glu Pro Arg
 100 105 110
 Val Leu Gly Leu Ala Met Val Pro Gly His His Ile Val Ser Ile Glu
 115 120 125
 Val Gln Arg Glu Ser Leu Thr Gly Pro Pro Tyr Leu
 130 135 140

<210> 181
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 181
 Ser Leu Lys Gly Lys Arg His Arg Gly Gln Arg Tyr Gly Gly Pro Val
 1 5 10 15
 Arg Leu Ser Leu Cys Thr Ser Met Glu Thr Met Trp Cys Pro Gly Thr
 20 25 30
 Met Ala Arg Pro Ser Thr Arg Gly Ser Pro Ala Glu Lys Glu Ser Asp
 35 40 45
 Gly Leu Arg Asn Ser Cys Ala Glu Pro Arg Met Thr Leu Gln Ser Arg
 50 55 60
 Ser Val Gln Arg Lys Gln Pro Thr Ser Val Arg Pro Ser Val Met Arg
 65 70 75 80
 Met Arg Ile Val Leu Leu Ser Ser Ala Ser Ser Cys Cys Arg Ala Arg
 85 90 95
 Ser Ala Ala Glu Ser Ser Arg Ser Pro Ser Glu Ser Pro Ala Leu Glu

100	105	110
Leu Leu		
<210> 182		
<211> 95		
<212> PRT		
<213> Homo sapiens		
<400> 182		
Arg Leu Ser Arg Leu Thr Glu Pro Lys Glu Asp Pro Met Ala Gly Ile		
1	5	10 15
Ser Thr Ala Glu His His Leu Asp Pro Thr Ala Ala Leu Pro Thr Gln		
20	25	30
Leu Ser Arg Ser Arg His Ser Pro Gln Val Ile Ser Thr Asp Gly Gly		
35	40	45
Glu Thr Arg Gly Cys Gly Arg Gln Glu Arg Lys Ala Glu Arg Arg Val		
50	55	60
Cys Lys Asn Ala Lys Val Thr Phe Pro Ile Val Gly Gly Lys Cys Gln		
65	70	75 80
Arg His Trp Phe Cys Cys His Arg Gln Ser Glu His Leu Glu Leu		
85	90	95
<210> 183		
<211> 131		
<212> PRT		
<213> Homo sapiens		
<400> 183		
Arg Arg Val Gln His Pro Pro Phe Phe Ser Gln Leu Ile Arg Asp Ala		
1	5	10 15
Ala Lys Arg Thr Phe Arg Ile Thr Arg Leu Gln Ala Phe Ser Lys Tyr		
20	25	30
Leu Val Val Tyr Val Tyr Leu Asn Gly Ser Met Leu Pro Val Pro Ser		
35	40	45
Pro Cys Pro Leu Cys Gln Pro Pro Val Ala Leu Val Leu Val Ser Phe		
50	55	60
Pro Ser Ser Ala Lys Arg Pro Trp Asn Leu Asn Gly Gly Cys Phe Ala		
65	70	75 80
Leu Gly Gly Ser Cys Trp Trp Asp Gln Ser Phe Asp Lys Pro Pro Ala		
85	90	95
Pro Trp Trp His Leu Ser Trp Lys Asp Val Thr Thr Pro Gly Ala Gln		
100	105	110
Thr Ala Cys Gly Ser Arg Thr Ser Ala Phe Gly Ile Phe Leu Pro Gln		

115 120 125

Trp Gly Arg
130

<210> 184
<211> 128
<212> PRT
<213> Homo sapiens

<400> 184
Thr Ala Pro Cys Cys Arg Cys Pro Ala Pro Val Pro Ser Val Asn Pro
1 5 10 15
Leu Ser Leu Trp Cys Trp Phe Arg Ser Arg Leu Gln Gln Asn Asp Leu
20 25 30
Gly Thr Ser Met Gly Ala Ala Leu Leu Trp Glu Val Leu Val Gly Gly
35 40 45
Thr Arg Ala Leu Thr Asn Leu Leu Leu Gly Gly Thr Ser Pro Gly
50 55 60
Arg Thr Ser Gln Leu Gln Val Leu Arg Leu Pro Val Ala Ala Glu Pro
65 70 75 80
Val Pro Leu Ala Phe Ser Ser His Asn Gly Glu Gly Asp Phe Gly Ile
85 90 95
Leu Thr Asn Ser Ser Leu Gly Leu Ser Leu Leu Pro Ser Thr Ala Ser
100 105 110
Arg Phe Ser Ser Ile Cys Ala Tyr Tyr Leu Arg Thr Val Ser Ala Pro
115 120 125

<210> 185
<211> 75
<212> PRT
<213> Homo sapiens

<400> 185
Asp Ser Arg Val Tyr Cys Phe Ser Gly Asn Tyr Arg Lys Leu Val Leu
1 5 10 15
Pro Arg Lys Thr Gly Ala Ile Arg Asn Gly Ser Asn Ile Ser Lys Leu
20 25 30
Arg Lys Gln Asp Val Leu Ser Phe Ala His Leu Gly Phe Leu Leu Phe
35 40 45
Pro Phe Ser Leu Phe Ser Leu Arg Ser Leu Phe Gln Phe Pro Ser Asp
50 55 60
Leu Pro Leu Val Pro Leu Glu Ser Gln Arg Leu
65 70 75

<210> 186
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 186
 Leu Gly Asp Ser Glu Ser Met Pro Leu Leu Ala Leu Lys Cys Pro Val
 1 5 10 15
 Arg Leu Leu Gly Thr Leu Glu Pro Ser Glu Ile Leu Ile Ile Leu Gly
 20 25 30
 Ser Ser Pro Tyr Phe Gln Met Phe Ser Ala Gln His Trp Val Leu Ser
 35 40 45
 Ser Thr Thr Glu Asn Pro Glu Glu Lys Gly Arg Cys Phe Pro
 50 55 60

<210> 187
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 187
 Pro His Pro Ser Arg Arg Leu Thr Gln Gly Arg Trp Val Arg Lys Ser
 1 5 10 15
 Arg Val Ala Met Glu Lys Ile Pro Val Ser Ala Phe Leu Arg Leu Val
 20 25 30
 Ala Leu Ser Tyr Asn Leu Ala Arg Asp Ser Thr Val Lys Pro Gly Ala
 35 40 45
 Lys Lys Asp Arg Lys Glu Ser Arg Ala Lys Leu Arg Gln Thr Leu Ser
 50 55 60
 Arg Ser Trp Gly Glu Gln Leu Ile Trp Thr Gln Thr Tyr Glu Glu Ala
 65 70 75 80
 Leu Tyr Lys Ser Arg Leu Ala Thr Asn
 85

<210> 188
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 188
 Gly Asn Pro Glu Leu Pro Trp Arg Lys Phe Gln Cys Gln His Ser Cys
 1 5 10 15
 Ala Leu Trp Arg Ser Pro Thr Ile Trp Pro Gly Ile Ala Gln Ser Asn
 20 25 30
 Leu Glu Pro Lys Arg Thr Gly Arg Ser Leu Glu Pro Asn Cys Ala Arg

35 40 45
 Pro Ser Pro Glu Val Gly Val Asn Asn Ser Ser Gly Leu Arg Arg Met
 50 55 60

Lys Lys Leu Tyr Ile Asn Arg Asp
 65 70

<210> 189
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 189
 Ser Leu Gly His Arg Pro Arg Asn Gly Gly His Ser Arg Gly Cys Asp
 1 5 10 15

Leu Gly Gly Leu His Ala His Ser Pro Asp Pro Arg Leu Gln Gly Ala
 20 25 30

Gly Leu Gln Gln Ala Lys Asn Ala Ala Tyr Ser Val Ser Leu Pro Pro
 35 40 45

Gly Cys Val Gly His Leu Trp Pro His Leu Arg Leu His His Arg Thr
 50 55 60

Gly Arg Glu His Arg Ala His Thr Leu Leu Pro Leu Trp Asp Pro Leu
 65 70 75 80

Phe His Leu Leu Leu Leu Pro Ala Gly Ser Cys Cys Gln Ser Asp Gln
 85 90 95

Ala Arg Pro Gly Glu Glu Ala Pro Phe Pro Val Gly Asp Ser Gly Ser
 100 105 110

Gly Arg Gly Leu Gln Pro Ser Pro Gly Cys Tyr Arg Tyr
 115 120 125

<210> 190
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 190
 Arg Gly Arg Asp Ser Cys Pro Arg Ser Pro Pro Ala Leu Arg Ser Ser
 1 5 10 15

Pro Ala Ala Leu Leu Arg Ala Gly Ser Ser Thr Lys Phe Thr Ala Asn
 20 25 30

Ala Leu Ala Leu Gly Ser Arg Met Ala Thr Thr Val Pro Asp Gly Cys
 35 40 45

Arg Asn Gly Leu Lys Ser Lys Tyr Tyr Arg Leu Cys Asp Lys Ala Glu
 50 55 60

Ala Trp Gly Ile Val Leu Glu Thr Val Ala Thr Ala Gly Val Val Thr
65 70 75 80

Ser Val Ala Phe Met Leu Thr Leu Pro Ile Leu Val Cys Lys Val Gln
85 90 95

Asp Ser Asn Arg Arg Lys Met Leu Pro Thr Gln Phe Leu Phe Leu Leu
100 105 110

Gly Val Leu Gly Ile Phe Gly Leu Thr Phe Ala Phe Ile Ile Gly Leu
115 120 125

Asp Gly Ser Thr Gly Pro Thr Arg Phe Phe Leu Phe Gly Ile Leu Phe
130 135 140

Ser Ile Cys Phe Ser Cys Leu Leu Ala His Ala Val Ser Leu Thr Lys
145 150 155 160

Leu Val Arg Gly Arg Lys Pro Leu Ser Arg Leu Val Ile Leu Gly Leu
165 170 175

Ala Val Gly Phe Ser Leu Val Gln Asp Val Ile Ala Ile Glu Tyr Ile
180 185 190

Val Leu Thr Met Asn Arg Thr Lys
195 200

<210> 191
<211> 111
<212> PRT
<213> Homo sapiens

<400> 191
Ala Glu Ala His Gly Gln Thr Gln Asn His Gln Pro Gly Lys Gly Leu
1 5 10 15

Pro Pro Pro Asp Glu Leu Gly Gln Thr Asp Ser Met Ser Gln Gln Ala
20 25 30

Gly Glu Ala Asp Gly Lys Glu Asp Pro Lys Glu Glu Glu Ala Cys Gly
35 40 45

Pro Cys Ala Pro Val Gln Ser Asp Asp Glu Gly Glu Gly Glu Ala Lys
50 55 60

Asp Ala Gln His Thr Gln Glu Glu Glu Lys Leu Ser Arg Gln His Phe
65 70 75 80

Ser Pro Val Gly Val Leu His Leu Ala Asp Glu Asp Arg Glu Ser Glu
85 90 95

His Glu Gly His Arg Gly His Asn Pro Gly Cys Gly His Arg Phe
100 105 110

<210> 192
<211> 92

<212> PRT

<213> Homo sapiens

<400> 192

Glu	Ile	Tyr	Trp	Glu	Thr	Asp	Tyr	Asn	His	Ser	Gly	Thr	Ile	Asp	Ala
1				5					10					15	

His	Glu	Met	Arg	Thr	Ala	Leu	Arg	Lys	Ala	Gly	Phe	Thr	Leu	Asn	Ser
			20					25					30		

Gln	Val	Gln	Gln	Thr	Ile	Ala	Leu	Arg	Tyr	Ala	Cys	Ser	Lys	Leu	Gly
		35					40					45			

Ile	Asn	Phe	Asp	Ser	Phe	Val	Ala	Cys	Met	Ile	Arg	Leu	Glu	Thr	Leu
	50					55					60				

Phe	Lys	Leu	Phe	Ser	Leu	Leu	Asp	Glu	Asp	Lys	Asp	Gly	Met	Val	Gln
65					70					75					80

Leu	Ser	Leu	Ala	Glu	Trp	Leu	Cys	Cys	Val	Leu	Val
				85					90		

<210> 193

<211> 81

<212> PRT

<213> Homo sapiens

<400> 193

Glu	Ser	Leu	Ile	Ala	Phe	Leu	Phe	Leu	His	Asp	Gln	Cys	Ala	Gln	Asp
1				5					10					15	

Ser	Ile	Val	Leu	Thr	Met	Ile	Lys	Asp	Val	Val	Arg	Ile	Gln	Trp	Thr
			20					25					30		

Arg	Asn	Glu	Cys	Lys	Gly	Gly	Leu	Glu	Gln	Arg	Arg	Gly	Cys	Pro	Glu
		35					40					45			

Gly	Lys	Glu	Ser	Tyr	Gln	Ile	Leu	Leu	Asn	Leu	Gln	Pro	Glu	Arg	Leu
	50					55					60				

Glu	Phe	His	Arg	Pro	Gln	Ser	Ala	Pro	Phe	His	Cys	Ser	Arg	His	Ile
65					70					75					80

Lys

<210> 194

<211> 82

<212> PRT

<213> Homo sapiens

<400> 194

Lys	Thr	Thr	Ile	His	Gly	Pro	Cys	Gln	Asn	His	Leu	Pro	Pro	Pro	His
1				5					10					15	

Cys	Phe	Leu	Lys	Arg	Pro	Gly	Thr	Leu	Ser	Lys	Gly	Asp	Pro	Ile	Asp
			20					25					30		

Ser Ser Gln Glu Gly Phe Arg Ala Ser Ile Arg Ala Trp Pro Val Leu
 35 40 45

Ala Pro Leu Leu Ser Glu Gln Gln Gly Phe Gln Gly Ser Gly Trp His
 50 55 60

Glu Ser Leu Ser Leu Pro Ser Cys Ser Phe Met Thr Asn Val Pro Arg
 65 70 75 80

Thr Gln

<210> 195

<211> 25

<212> PRT

<213> Homo sapiens

<400> 195

Arg Pro Pro Pro Ser Ser Arg Ser Ser Leu Ala Gly Gln Thr Asn Thr
 1 5 10 15

Gln His Ser His Ser Ala Arg Glu Ser
 20 25

<210> 196

<211> 71

<212> PRT

<213> Homo sapiens

<400> 196

Thr Met Pro Ser Leu Ser Ser Ser Arg Arg Leu Asn Ser Leu Lys Arg
 1 5 10 15

Val Ser Arg Arg Ile Ile Gln Ala Thr Lys Leu Ser Lys Leu Met Pro
 20 25 30

Ser Leu Leu His Ala Tyr Arg Arg Ala Met Val Cys Cys Thr Trp Leu
 35 40 45

Leu Arg Val Lys Pro Ala Phe Leu Arg Ala Val Leu Ile Ser Trp Ala
 50 55 60

Ser Met Val Pro Glu Trp Leu
 65 70

<210> 197

<211> 86

<212> PRT

<213> Homo sapiens

<400> 197

Ile Arg Arg Asn Thr Ser Arg Ile Ser Val His Thr Trp Arg Arg Thr
 1 5 10 15

Pro Pro Tyr Asp Ser Pro Ala Cys Phe Ser Cys Ser Ile Val Ser Leu

[illegible]

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<210> 198
<211> 101
<212> PRT
<213> Homo sapiens
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<400> 198
His Pro Phe Ser Thr Phe Pro Thr Leu Pro Pro Gln Ala Gly Lys Phe
  1          5          10          15
Asp Ala Thr Leu Leu Ala Ser Gln Cys Ile Leu Gly Gly Ala Arg Leu
          20          25          30
Leu Thr Ile Arg Leu Leu Ala Ser Pro Val Gln Ser Phe Leu Trp Lys
          35          40          45
Ala Val Asp Phe Ser Leu Ala Ser Leu Ser Ser Ser Val Ser Thr Tyr
          50          55          60
Arg Ile Ser Arg Ser Gln Pro Tyr Arg Val Cys Gln Thr Trp Leu Arg
  65          70          75          80
Arg Lys Ser Lys Ala Arg Arg Thr Ser Thr Ser Asp Ser Ser Ser Arg
          85          90          95
Leu Ala Ala Val Ala
          100

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<210> 199
<211> 100
<212> PRT
<213> Homo sapiens
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<400> 199
Thr Pro Phe Pro Pro Ser Gln Leu Tyr Pro Leu Lys Gln Val Asn Ser
  1             5             10             15
Thr Gln His Phe Ser His Leu Ser Ala Tyr Leu Ala Ala His Ala Ser
          20             25             30
Leu Arg Phe Ala Cys Leu Leu Leu Leu Phe Asn Arg Phe Phe Gly Arg
          35             40             45

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Gln Trp Ile Phe Leu Leu Arg Leu Cys Leu Leu Gln Phe Arg Leu Ile
 50 55 60

Glu Phe Leu Asp Leu Ser His Ile Gly Phe Val Arg His Gly Cys Gly
 65 70 75 80

Gly Lys Ala Lys Arg Gly Ala Arg Val Arg Ala Thr Val Pro Arg Val
 85 90 95

Ser Pro Gln Trp
 100

<210> 200
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 200
 Gly Leu Thr Asp Gln Tyr Leu Glu Leu Asn Ala Leu Gln Glu Glu Leu
 1 5 10 15

Gly Pro Phe Gly Leu Val Ile Leu Gly Phe Pro Ser Asn Gln Phe Gly
 20 25 30

Lys Gln Glu Pro Gly Glu Asn Ser Glu Ile Leu Pro Ser Leu Lys Tyr
 35 40 45

Val Arg Pro Gly Gly Gly Phe Val Pro Asn Phe Gln Leu Phe Glu Lys
 50 55 60

Gly Asp Val Asn Gly Glu Lys Glu Gln Lys Phe Tyr Thr Phe Leu Lys
 65 70 75 80

Asn Ser Cys Pro Pro Thr Ala Glu Leu Leu Gly Ser Pro Gly Arg Leu
 85 90 95

Phe Trp Glu Pro Met Lys Ile His Asp Ile Arg Trp Asn Phe Glu Lys
 100 105 110

Phe Leu Val Gly Pro Asp Gly Ile Pro Val Met Arg Trp Tyr His Arg
 115 120 125

Thr Thr Val Ser Asn Val Lys Met Asp Ile Leu Ser Tyr Met Arg Arg
 130 135 140

Gln Ala Ala Leu Ser Ala Arg Gly Lys
 145 150

<210> 201
 <211> 249
 <212> PRT
 <213> Homo sapiens

<400> 201
 Leu Met Pro Pro Pro Tyr Pro Tyr Pro Leu Pro Ile Met Gln Gly Pro
 1 5 10 15

Arg Arg Gly Ser Ser Gly Arg Lys Pro His Ser Gln Ser Phe Tyr Pro
 20 25 30
 His Pro Arg Phe Ser Phe Leu Leu His Lys Arg Gln Ala Trp His Asn
 35 40 45
 Cys Val Ser Glu Pro Leu Trp Thr Arg Asp Asn Cys Pro Ser Val Cys
 50 55 60
 Met Ala Thr Gln Pro Arg Ile Cys Leu Leu Glu Thr Gln Gly Trp Ser
 65 70 75 80
 Ile Cys Val Tyr Gly Leu Ala Gln His Pro His Ile Phe Phe Ser Phe
 85 90 95
 Leu Phe Gln Met Ser Pro Lys Glu Thr Gln Val Leu Gly Pro Met Val
 100 105 110
 Leu Leu Lys Pro Glu His His Ser Trp Gly Gln His Leu Pro His Ala
 115 120 125
 His Thr Thr His His Gln Pro Pro Ser Ser Phe Leu Lys Asp Pro Pro
 130 135 140
 Glu Pro Pro Ser Pro Ser His Ser Ala Pro Glu Thr Ser Gln Asp Asn
 145 150 155 160
 Cys Glu Arg Asp Gly Arg Val Pro Gln Val Arg Gly Gly Val Ser Met
 165 170 175
 Lys Glu Gly Pro Glu Ala Leu Val Gly Gly Pro Pro Leu Ser Pro Ser
 180 185 190
 Val Val Pro Ala Leu Ser Ala Phe Arg Leu Arg Leu Pro Gly Arg Asp
 195 200 205
 Thr Thr Pro Ala Pro Leu Glu Asp Met Leu Ser Ser His Ser Val His
 210 215 220
 Trp Tyr Leu Asn Thr Pro Ile Cys Pro Val Lys Val Phe Leu Gln Gln
 225 230 235 240
 Lys Lys Lys Arg Lys Lys Lys Lys Lys
 245

<210> 202

<211> 156

<212> PRT

<213> Homo sapiens

<400> 202

Ala Gly Leu Ser Ala Pro Pro Pro Ala Pro Leu Leu Cys Arg Ala Gln
 1 5 10 15

Ala Pro Leu Ala Leu Gly Pro Asn Phe Ser Tyr Arg His Gly Val Arg
 20 25 30

Pro Gly Ser Ser Pro Gly Ala His Leu Pro Glu Ala Arg Cys Gly Gly
 35 40 45
 Gly Pro Arg Gly Arg Ser Gln Ala Gln Ser Pro Gln Ser Ser Gly Pro
 50 55 60
 Val Gly Gly Arg Gly Arg Ser Gly Ser Lys Ala Arg Thr Pro Gln Leu
 65 70 75 80
 Phe Arg Leu Gln Gln Gln Leu Gln Arg Phe Gly His Gly Cys Glu Val
 85 90 95
 Pro Arg Cys Trp Leu Gln Ala Ala Arg Glu His Pro Gly Gln Gly Gln
 100 105 110
 Glu Ala Gln Ser Glu Glu Glu Gly Glu Gly Gln Glu Gly Glu Gly Gln
 115 120 125
 Glu Glu Gly Gly Ser Pro Leu Lys Gly Pro Gly Gln Gly Ser Leu Asn
 130 135 140
 Leu Pro Leu Cys Leu Arg Val Pro Thr Thr Trp Ser
 145 150 155

<210> 203
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 203
 Asp Pro Thr Ser Leu Thr Ala Met Glu Phe Asp Leu Gly Ala Ala Leu
 1 5 10 15
 Glu Pro Thr Ser Gln Lys Pro Gly Val Gly Ala Gly His Gly Gly Asp
 20 25 30
 Pro Lys Leu Ser Pro His Lys Val Gln Gly Arg Ser Glu Ala Gly Ala
 35 40 45
 Gly Pro Gly Pro Lys Gln Gly His His Ser Ser Ser Asp Ser Ser Ser
 50 55 60
 Ser Ser Ser Asp Ser Asp Thr Asp Val Lys Ser His Ala Ala Gly Ser
 65 70 75 80
 Lys Gln His Glu Ser Ile Pro Gly Lys Ala Lys Lys Pro Lys Val Lys
 85 90 95
 Lys Lys Glu Lys Gly Lys Lys Glu Lys Gly Lys Lys Lys Glu Ala Pro
 100 105 110

His

<210> 204
 <211> 162

<212> PRT

<213> Homo sapiens

<400> 204

Gly Gly Pro Pro Pro Pro Lys His Leu Ser Ser Arg Trp Leu Val Leu
 1 5 10 15

Val Gly Arg Glu Glu Gly Leu Met Ser Pro Val Gln Gly Pro Ser Val
 20 25 30

Gly Ser Leu Leu Leu Leu Ala Leu Leu Leu Ala Leu Leu Leu
 35 40 45

Leu His Phe Gly Leu Leu Gly Leu Ala Arg Asp Ala Leu Val Leu Leu
 50 55 60

Gly Ala Ser Ser Val Gly Leu His Ile Arg Val Arg Ile Ala Gly Ala
 65 70 75 80

Ala Ala Gly Val Gly Arg Ala Val Val Ser Leu Leu Trp Thr Arg Thr
 85 90 95

Cys Pro Cys Leu Arg Pro Ala Leu Asn Phe Val Gly Thr Glu Leu Gly
 100 105 110

Ile Ser Pro Val Ala Arg Pro His Thr Gly Leu Leu Gly Gly Gly Leu
 115 120 125

Gln Gly Cys Ser Gln Val Glu Leu His Gly Gly Lys Arg Ser Trp Val
 130 135 140

Leu Arg Pro Arg Ala Pro Gly Pro Cys Arg Gly Ala Glu Gln Gly Glu
 145 150 155 160

Glu Arg

<210> 205

<211> 145

<212> PRT

<213> Homo sapiens

<400> 205

Val Glu Pro Trp Thr Thr Cys Arg Ala Ala Gly Ala Val Met Ala Asp
 1 5 10 15

Tyr Trp Lys Ser Gln Pro Lys Lys Phe Cys Asp Tyr Cys Lys Cys Trp
 20 25 30

Ile Ala Asp Asn Arg Pro Ser Val Glu Phe His Glu Arg Gly Lys Asn
 35 40 45

His Lys Glu Asn Val Ala Lys Arg Ile Ser Glu Ile Lys Gln Lys Ser
 50 55 60

Leu Asp Lys Ala Lys Glu Glu Glu Lys Ala Ser Lys Glu Phe Ala Ala
 65 70 75 80

Met Glu Ala Ala Ala Leu Lys Ala Tyr Gln Glu Asp Leu Lys Arg Leu
85 90 95

Gly Leu Glu Ser Glu Ile Leu Glu Pro Ser Ile Thr Pro Val Thr Ser
100 105 110

Thr Ile Pro Pro Thr Ser Thr Ser Asn Gln Gln Lys Glu Lys Lys Glu
115 120 125

Lys Lys Lys Lys Arg Ser Phe Lys Gly Gln Met Gly Arg Arg His Asn
130 135 140

Leu
145

<210> 206

<211> 262

<212> PRT

<213> Homo sapiens

<400> 206

Pro Ala Leu Ser His Leu Pro Arg His Gln Ile Asn Arg Lys Lys Arg
1 5 10 15

Lys Arg Arg Arg Lys Lys Asp Pro Ser Lys Gly Arg Trp Val Glu Gly
20 25 30

Ile Thr Ser Glu Gly Tyr His Tyr Tyr Tyr Asp Leu Ile Ser Gly Ala
35 40 45

Ser Gln Trp Glu Lys Pro Glu Gly Phe Gln Gly Asp Leu Lys Lys Thr
50 55 60

Ala Val Lys Thr Val Trp Val Glu Gly Leu Ser Glu Asp Gly Phe Thr
65 70 75 80

Tyr Tyr Tyr Asn Thr Glu Thr Gly Glu Ser Arg Trp Glu Lys Pro Asp
85 90 95

Asp Phe Ile Pro His Thr Ser Asp Leu Pro Ser Ser Lys Val Asn Glu
100 105 110

Asn Ser Leu Gly Thr Leu Asp Glu Ser Lys Ser Ser Asp Ser His Ser
115 120 125

Asp Ser Asp Gly Glu Gln Glu Ala Glu Glu Gly Gly Val Ser Thr Glu
130 135 140

Thr Glu Lys Pro Lys Ile Lys Phe Lys Glu Lys Asn Lys Asn Ser Asp
145 150 155 160

Gly Gly Ser Asp Pro Glu Thr Gln Lys Glu Lys Ser Ile Gln Lys Gln
165 170 175

Asn Ser Leu Gly Ser Asn Glu Glu Lys Ser Lys Thr Leu Lys Lys Ser
180 185 190

Asn Pro Tyr Gly Glu Trp Gln Glu Ile Lys Gln Glu Val Glu Ser His
 195 200 205

Glu Glu Val Asp Leu Glu Leu Pro Ser Thr Glu Asn Glu Tyr Val Ser
 210 215 220

Thr Ser Glu Ala Asp Gly Gly Gly Glu Pro Lys Val Val Phe Lys Glu
 225 230 235 240

Lys Thr Val Thr Ser Leu Gly Val Met Ala Asp Gly Val Ala Pro Val
 245 250 255

Phe Lys Lys Arg Arg Thr
 260

<210> 207

<211> 73

<212> PRT

<213> Homo sapiens

<400> 207

Gly Lys Gly Arg Arg Lys Gly Ile Lys Gly Val Cys Cys Asn Gly Gly
 1 5 10 15

Ser Cys Pro Glu Ser Ile Pro Arg Gly Phe Glu Lys Thr Trp Leu Arg
 20 25 30

Val Arg Asn Phe Gly Ala Lys His Asn Thr Ser Asn Gln His Tyr Pro
 35 40 45

Thr Tyr Leu Asp Ile Lys Ser Thr Glu Arg Lys Glu Arg Glu Glu Glu
 50 55 60

Lys Lys Ile Leu Gln Arg Ala Asp Gly
 65 70

<210> 208

<211> 68

<212> PRT

<213> Homo sapiens

<400> 208

Ile Trp Asn Phe Gln Ala Leu Lys Met Ser Met Tyr Gln Leu Gln Lys
 1 5 10 15

Leu Met Val Ala Glu Asn Pro Lys Trp Tyr Leu Lys Lys Lys Gln Ser
 20 25 30

Leu Leu Leu Glu Leu Trp Gln Met Glu Trp Pro Gln Ser Ser Lys Arg
 35 40 45

Glu Glu Leu Glu Asn Gly Lys Ile Leu Gly Lys Phe Lys Gly Asn Glu
 50 55 60

Val Met Ile Gln
 65

<210> 209

<400> 209
000

<210> 210

<211> 194

<212> PRT

<213> Homo sapiens

<400> 210

Ser	Val	His	Cys	Phe	Arg	Glu	Asp	Lys	Met	Lys	Phe	Thr	Ile	Val	Phe
1				5					10					15	

Ala	Gly	Leu	Leu	Gly	Val	Phe	Leu	Ala	Pro	Ala	Leu	Ala	Asn	Tyr	Asn
		20						25					30		

Ile	Asn	Val	Asn	Asp	Asp	Asn	Asn	Asn	Ala	Gly	Ser	Gly	Gln	Gln	Ser
	35					40						45			

Val	Ser	Val	Asn	Asn	Glu	His	Asn	Val	Ala	Asn	Val	Asp	Asn	Asn	Asn
	50					55					60				

Gly	Trp	Asp	Ser	Trp	Asn	Ser	Ile	Trp	Asp	Tyr	Gly	Asn	Gly	Phe	Ala
65					70					75					80

Ala	Thr	Arg	Leu	Phe	Gln	Lys	Lys	Thr	Cys	Ile	Val	His	Lys	Met	Asn
				85					90					95	

Lys	Glu	Val	Met	Pro	Ser	Ile	Gln	Ser	Leu	Asp	Ala	Leu	Val	Lys	Glu
		100						105					110		

Lys	Lys	Leu	Gln	Gly	Lys	Gly	Pro	Gly	Gly	Pro	Pro	Pro	Lys	Gly	Leu
		115					120					125			

Met	Tyr	Ser	Val	Asn	Pro	Asn	Lys	Val	Asp	Asp	Leu	Ser	Lys	Phe	Gly
	130					135					140				

Lys	Asn	Ile	Ala	Asn	Met	Cys	Arg	Gly	Ile	Pro	Thr	Tyr	Met	Ala	Glu
145					150					155					160

Glu	Met	Gln	Glu	Ala	Ser	Leu	Phe	Phe	Tyr	Ser	Gly	Thr	Cys	Tyr	Thr
				165					170					175	

Thr	Ser	Val	Leu	Trp	Ile	Val	Asp	Ile	Ser	Phe	Cys	Gly	Asp	Thr	Val
			180					185					190		

Glu Asn

<210> 211

<211> 82

<212> PRT

<213> Homo sapiens

<400> 211

Val His Gln Ala Leu Gly Arg Trp Ser Ser Trp Ser Leu Thr Leu Lys
 1 5 10 15

Leu Leu Phe Leu Asp Gln Cys Ile Lys Gly Leu Asn Gly Gly His Asp
 20 25 30

Phe Leu Val His Phe Val His Asn Ala Cys Leu Leu Leu Lys Glu Ser
 35 40 45

Gly Cys Ser Lys Ala Ile Ser Ile Ile Pro Asp Gly Ile Pro Gly Val
 50 55 60

Pro Ser Val Val Ile Val Asn Ile Gly His Ile Val Phe Ile Val Asp
 65 70 75 80

Thr His

<210> 212

<211> 119

<212> PRT

<213> Homo sapiens

<400> 212

Glu Leu Gly Leu Asn His Leu Trp Leu Arg Val Trp Leu Glu Pro Thr
 1 5 10 15

Ala Gln Val Pro Asp Val Leu Phe Pro Glu Phe Met Glu Arg Glu Glu
 20 25 30

Lys Ala Val Ser Leu Leu Leu Trp Phe Asn Val Lys Glu Pro Gln Leu
 35 40 45

Pro Pro Leu Pro Gly Arg Glu Ala Phe Gly Phe Leu Leu Leu Leu
 50 55 60

Ala Leu Val Ala Gly Glu Val Leu Gln Asp His Arg Leu Ala Leu Gln
 65 70 75 80

Leu Val Leu Ala Gly Leu Arg Ala His Ala Gly Arg Leu Arg Phe Arg
 85 90 95

Lys Ala Leu Thr Lys Ala Ser Ala Arg Cys Ala Pro Glu Gly Trp Thr
 100 105 110

Ser Glu Ser Phe Ala Ser Phe
 115

<210> 213

<211> 136

<212> PRT

<213> Homo sapiens

<400> 213

Ile Ile Cys Gly Cys Val Ser Gly Leu Ser Pro Leu His Arg Ser Leu
 1 5 10 15

Met Tyr Cys Phe Gln Ser Ser Trp Arg Gly Arg Lys Arg Leu Tyr Leu
 20 25 30

Cys Cys Ser Gly Leu Met Ser Lys Ser Arg Ser Ser Leu Leu Cys Leu
 35 40 45

Ala Glu Lys Pro Leu Ala Phe Phe Phe Phe Ser Leu Arg Leu Trp Arg
 50 55 60

Val Lys Tyr Ser Arg Thr Thr Ala Leu Arg Cys Ser Trp Ser Ser Arg
 65 70 75 80

Ala Cys Gly Leu Met Arg Gly Val Cys Ala Ser Gly Arg Pro Ser Arg
 85 90 95

Arg Pro Arg Pro Ala Val Leu Leu Lys Ala Gly His Arg Ser His Ser
 100 105 110

Pro Leu Ser Glu Thr Met His Gly Arg Ser His Ser Ser Phe Ser Asp
 115 120 125

Arg Phe Arg Arg Ser Leu Met Thr
 130 135

<210> 214

<211> 101

<212> PRT

<213> Homo sapiens

<400> 214

Thr Leu Glu Thr Val His Gln Gly Pro Val Gln Trp Ala Gln Ala Arg
 1 5 10 15

His Ala Ala Thr Asp Asp Ser Gly Gln Ala Leu Lys Gly Arg Ser Ser
 20 25 30

Arg Gly Tyr Tyr Phe Ser Asp Lys Ile Gln Met Pro Leu Leu Cys Gly
 35 40 45

Tyr Tyr Arg Asn Pro Ser Thr Gly Asn Lys Ala His Phe Gln Asn Tyr
 50 55 60

His Gln Arg Arg Pro Pro Glu Ser Tyr Pro Gln Ala Lys Leu Arg Val
 65 70 75 80

His Cys Gly Asn Arg Trp Leu Tyr Phe Leu His Leu Arg Glu Gln Ile
 85 90 95

Pro Ala Ser Val Lys
 100

<210> 215

<211> 204

<212> PRT

<213> Homo sapiens

<400> 215

Leu Arg Cys Pro Ala Phe Arg Ser Thr Ala Gly Arg Gly Leu Arg Glu
 1 5 10 15
 Gly Leu Pro Glu Ala Gln Thr Pro Arg Met Ser Pro Gln Ala Arg Glu
 20 25 30
 Asp Gln Leu Gln Arg Lys Ala Val Val Leu Glu Tyr Phe Thr Arg His
 35 40 45
 Lys Arg Lys Glu Lys Lys Lys Lys Ala Lys Gly Phe Ser Ala Arg Gln
 50 55 60
 Arg Arg Glu Leu Arg Leu Phe Asp Ile Lys Pro Glu Gln Gln Arg Tyr
 65 70 75 80
 Ser Leu Phe Leu Pro Leu His Glu Leu Trp Lys Gln Tyr Ile Arg Asp
 85 90 95
 Leu Cys Ser Gly Leu Lys Pro Asp Thr Gln Pro Gln Met Ile Gln Ala
 100 105 110
 Lys Leu Leu Lys Ala Asp Leu His Gly Ala Ile Ile Ser Val Thr Lys
 115 120 125
 Ser Lys Cys Pro Ser Tyr Val Gly Ile Thr Gly Ile Leu Leu Gln Glu
 130 135 140
 Thr Lys His Ile Phe Lys Ile Ile Thr Lys Glu Asp Arg Leu Lys Val
 145 150 155 160
 Ile Pro Lys Leu Asn Cys Val Phe Thr Val Glu Thr Asp Gly Phe Ile
 165 170 175
 Ser Tyr Ile Tyr Gly Ser Lys Phe Gln Leu Arg Ser Ser Glu Arg Ser
 180 185 190
 Ala Lys Lys Phe Lys Ala Lys Gly Thr Ile Asp Leu
 195 200

<210> 216

<211> 645

<212> PRT

<213> Homo sapiens

<400> 216

Pro Thr Arg Pro Val Ala Ala Gly Ser Glu Gln Gln Gln Gln Ser Ala
 1 5 10 15
 Phe Ile Gln Glu Arg Gln Pro Val Ala Leu Met Arg Leu Leu Ser Phe
 20 25 30
 Asn Val Pro His Ile Lys Asn Ser Thr Gly Glu Pro Ile Trp Lys Val
 35 40 45
 Leu Ile Tyr Asp Arg Phe Gly Gln Asp Ile Ile Ser Pro Leu Leu Ser

50	55	60
Val Lys Glu Leu Arg Asp Met Gly Ile Thr Leu His Leu Leu Leu His		
65	70	75 80
Ser Asp Arg Asp Pro Ile Pro Asp Val Pro Ala Val Tyr Phe Val Met		
	85	90 95
Pro Thr Glu Glu Asn Ile Asp Arg Met Cys Gln Asp Leu Arg Asn Gln		
	100	105 110
Leu Tyr Glu Ser Tyr Tyr Leu Asn Phe Ile Ser Ala Ile Ser Arg Ser		
	115	120 125
Lys Leu Glu Asp Ile Ala Asn Ala Ala Leu Ala Ala Ser Ala Val Thr		
	130	135 140
Gln Val Ala Lys Val Phe Asp Gln Tyr Leu Asn Phe Ile Thr Leu Glu		
	145	150 155 160
Asp Asp Met Phe Val Leu Cys Asn Gln Asn Lys Glu Leu Val Ser Tyr		
	165	170 175
Arg Ala Ile Asn Arg Pro Asp Ile Thr Asp Thr Glu Met Glu Thr Val		
	180	185 190
Met Asp Thr Ile Val Asp Ser Leu Phe Cys Phe Phe Val Thr Leu Gly		
	195	200 205
Ala Val Pro Ile Ile Arg Cys Ser Arg Gly Thr Ala Ala Glu Met Val		
	210	215 220
Ala Val Lys Leu Asp Lys Lys Leu Arg Glu Asn Leu Arg Asp Ala Arg		
	225	230 235 240
Asn Ser Leu Phe Thr Gly Asp Thr Leu Gly Ala Gly Gln Phe Ser Phe		
	245	250 255
Gln Arg Pro Leu Leu Val Leu Val Asp Arg Asn Ile Asp Leu Ala Thr		
	260	265 270
Pro Leu His His Thr Trp Thr Tyr Gln Ala Leu Val His Asp Val Leu		
	275	280 285
Asp Phe His Leu Asn Arg Val Asn Leu Glu Glu Ser Ser Gly Val Glu		
	290	295 300
Asn Ser Pro Ala Gly Ala Arg Pro Lys Arg Lys Asn Lys Lys Ser Tyr		
305	310	315 320
Asp Leu Thr Pro Val Asp Lys Phe Trp Gln Lys His Lys Gly Ser Pro		
	325	330 335
Phe Pro Glu Val Ala Glu Ser Val Gln Gln Glu Leu Glu Ser Tyr Arg		
	340	345 350
Ala Gln Glu Asp Glu Val Lys Arg Leu Lys Ser Ile Met Gly Leu Glu		
	355	360 365

Gly Glu Asp Glu Gly Ala Ile Ser Met Leu Ser Asp Asn Thr Ala Lys
 370 375 380
 Leu Thr Ser Ala Val Ser Ser Leu Pro Glu Leu Leu Glu Lys Lys Arg
 385 390 395 400
 Leu Ile Asp Leu His Thr Asn Val Ala Thr Ala Val Leu Glu His Ile
 405 410 415
 Lys Ala Arg Lys Leu Asp Val Tyr Phe Glu Tyr Glu Glu Lys Ile Met
 420 425 430
 Ser Lys Thr Thr Leu Asp Lys Ser Leu Leu Asp Ile Ile Ser Asp Pro
 435 440 445
 Asp Ala Gly Thr Pro Glu Asp Lys Met Arg Leu Phe Leu Ile Tyr Tyr
 450 455 460
 Ile Ser Thr Gln Gln Ala Pro Ser Glu Ala Asp Leu Glu Gln Tyr Lys
 465 470 475 480
 Lys Ala Leu Thr Asp Ala Gly Cys Asn Leu Asn Pro Leu Gln Tyr Ile
 485 490 495
 Lys Gln Trp Lys Ala Phe Thr Lys Met Ala Ser Ala Pro Ala Ser Tyr
 500 505 510
 Gly Ser Thr Thr Thr Lys Pro Met Gly Leu Leu Ser Arg Val Met Asn
 515 520 525
 Thr Gly Ser Gln Phe Val Met Glu Gly Val Lys Asn Leu Val Leu Lys
 530 535 540
 Gln Gln Asn Leu Pro Val Thr Arg Ile Leu Asp Asn Leu Met Glu Met
 545 550 555 560
 Lys Ser Asn Pro Glu Thr Asp Asp Tyr Arg Tyr Phe Asp Pro Lys Met
 565 570 575
 Leu Arg Gly Asn Asp Ser Ser Val Pro Arg Asn Lys Asn Pro Phe Gln
 580 585 590
 Glu Ala Ile Val Phe Val Val Gly Gly Gly Asn Tyr Ile Glu Tyr Gln
 595 600 605
 Asn Leu Val Asp Tyr Ile Lys Gly Lys Gln Gly Lys His Ile Leu Tyr
 610 615 620
 Gly Cys Ser Glu Leu Phe Asn Ala Thr Gln Phe Ile Lys Gln Leu Ser
 625 630 635 640
 Gln Leu Gly Gln Lys
 645

<210> 217

<211> 101

<212> PRT

<213> Homo sapiens

<400> 217

Gly Ala Gly Pro Ser Gln Leu Arg Leu His Tyr Pro Arg Ile Ser Met
 1 5 10 15
 Ala Val Arg Gln Trp Val Ile Ala Leu Ala Leu Ala Ala Leu Leu Val
 20 25 30
 Val Asp Arg Glu Val Pro Val Ala Ala Gly Lys Leu Pro Phe Ser Arg
 35 40 45
 Met Pro Ile Cys Glu His Met Val Glu Ser Pro Thr Cys Ser Gln Met
 50 55 60
 Ser Asn Leu Val Cys Gly Thr Asp Gly Leu Thr Tyr Thr Asn Glu Cys
 65 70 75 80
 Gln Leu Cys Leu Ala Arg Ile Lys Thr Lys Gln Asp Ile Gln Ile Met
 85 90 95
 Lys Asp Gly Lys Cys
 100

<210> 218

<211> 123

<212> PRT

<213> Homo sapiens

<400> 218

Gln Leu Gly Trp Ile Phe Tyr Phe Met Ser Tyr Pro Leu His Ala His
 1 5 10 15
 His Cys Ser Pro Ala Asp Thr Ser Trp Leu Glu Val Leu Leu Trp Asp
 20 25 30
 Gln His Leu Pro Ser Phe Met Ile Trp Met Ser Cys Leu Val Phe Ile
 35 40 45
 Arg Ala Lys Gln Ser Trp His Ser Phe Val Tyr Val Ser Pro Ser Val
 50 55 60
 Pro Gln Thr Arg Leu Asp Ile Trp Glu Gln Val Gly Asp Ser Thr Met
 65 70 75 80
 Cys Ser Gln Met Gly Ile Leu Glu Lys Gly Ser Phe Pro Ala Ala Thr
 85 90 95
 Gly Thr Ser Leu Ser Thr Thr Arg Arg Ala Ala Lys Ala Arg Ala Ile
 100 105 110
 Thr His Trp Arg Thr Ala Met Leu Ile Leu Gly
 115 120

<210> 219

<211> 64
 <212> PRT
 <213> Homo sapiens

<400> 219
 Ile Lys Ala Lys Phe Asn Leu Asn Ala Phe Phe Phe Phe Phe Leu Leu
 1 5 10 15
 Arg Ser Glu Ile Gly Thr Val Ile Leu Ser Thr Glu Arg Gln Thr Ile
 20 25 30
 Lys Trp Ala Met Lys Gly Gly Gly Lys Val Leu Ser Ile Val Arg Gly
 35 40 45
 Ile Gln Pro Glu Ile Lys Pro Ile Tyr Lys His Val Cys Ser Ser Lys
 50 55 60

<210> 220
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 220
 Ser Phe Ala Ile Pro Phe Pro Trp His Cys Thr Ile Ser Pro Ile Ile
 1 5 10 15
 Gly Gln Ser Leu Gly Phe Leu Gly Phe Thr Met Val Ala Thr Thr Ile
 20 25 30
 Arg Leu Ile Asp Gly Ser Asn Leu Lys Lys Lys Val Met Val Met Asp
 35 40 45
 Lys Ile Ser Arg Ser Arg Glu Val Cys Tyr His Lys Ile Thr Val Ala
 50 55 60
 Ser Thr Ser
 65

<210> 221
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 221
 Thr Ile Ile Ser Ser Ile Thr Asp Ser Gln Leu Gln Glu Val Ala Glu
 1 5 10 15
 Gln Leu Glu Ile Phe Ala Ala Leu His Glu Val Leu His Ile Ile Asn
 20 25 30
 Asp Arg Lys Asn Leu Lys Gly Gly Leu Gln Glu Val Ala Glu Gln Leu
 35 40 45
 Glu Leu Glu Arg Ile Gly Pro Gln His Gln Ala Gly Ser Asp Ser Leu
 50 55 60

Leu Thr Gly Met Ala Phe Phe Lys Met Arg Glu Met Phe Phe Glu Asp
65 70 75 80

His Ile Asp Asp Ala Lys Tyr Cys Gly His Leu Tyr Gly Leu Gly Ser
85 90 95

Gly Ser Ser Tyr Val Gln Asn Gly Thr Gly Asn Ala Tyr Glu Glu Glu
100 105 110

Ala Asn Lys Gln Ser
115

<210> 222

<211> 196

<212> PRT

<213> Homo sapiens

<400> 222

Pro Thr Cys Pro Ile Gln His Phe Ile Met Met Lys Leu Trp Val Pro
1 5 10 15

Ser Arg Ser Leu Pro Asn Ser Pro Asn His Tyr Arg Ser Phe Leu Ser
20 25 30

His Thr Leu His Ile Arg Tyr Asn Asn Ser Leu Phe Ile Ser Asn Thr
35 40 45

His Leu Ser Arg Arg Lys Leu Arg Val Thr Asn Pro Ile Tyr Thr Arg
50 55 60

Lys Arg Ser Leu Asn Ile Phe Tyr Leu Leu Ile Pro Ser Cys Arg Thr
65 70 75 80

Arg Leu Ile Leu Trp Ile Ile Tyr Ile Tyr Arg Asn Leu Lys His Trp
85 90 95

Ser Thr Ser Thr Val Arg Ser His Ser His Ser Ile Tyr Arg Leu Arg
100 105 110

Pro Ser¹ Met Arg Thr Asn Ile Ile Leu Arg Cys His Ser Tyr Tyr Lys
115 120 125

Pro Pro Ile Ser His Pro Ile Tyr Trp Asn Asn Pro Ser Arg Met Asn
130 135 140

Leu Arg Gly Leu Leu Ser Arg Gln Ser His Leu Asp Pro Ile Leu Arg
145 150 155 160

Phe Pro Leu His Leu Thr Ile Tyr Tyr Arg Gly Pro Ser Asn Arg Ser
165 170 175

Pro Pro Leu Pro Pro Arg Asn Arg Ile Lys Gln Pro Asn Arg Ile Lys
180 185 190

Leu Arg Cys Arg
195

<210> 223
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 223

Leu	Pro	Ser	Ala	Ile	Glu	Gly	Pro	Thr	Pro	Val	Ser	Ala	Leu	Leu	His
1				5					10					15	
Ser	Ser	Thr	Ile	Val	Val	Ala	Gly	Ile	Phe	Leu	Leu	Val	Arg	Phe	His
			20					25					30		
Pro	Leu	Thr	Thr	Asn	Asn	Asn	Phe	Ile	Leu	Thr	Thr	Ile	Leu	Cys	Leu
			35				40					45			
Gly	Ala	Leu	Thr	Thr	Leu	Phe	Thr	Ala	Ile	Cys	Ala	Leu	Thr	Gln	Asn
	50					55					60				
Asp	Ile	Lys	Lys	Ile	Ile	Ala	Phe	Ser	Thr	Ser	Ser	Gln	Leu	Gly	Leu
65					70					75					80
Ile	Ile	Val	Thr	Leu	Gly	Ile	Asn	Gln	Pro	His	Leu	Ala	Phe	Leu	His
				85					90					95	
Ile	Cys	Thr	His	Ala	Phe	Phe	Lys	Ala	Ile	Leu	Phe	Ile	Cys	Ser	Gly
			100					105					110		
Ser	Ile	Ile	His	Ser	Leu	Ala	Asp	Glu	Gln	Asp	Ile	Arg	Lys	Ile	Gly
	115						120					125			
Asn	Ile	Thr	Lys	Ile	Ile	Pro	Phe	Thr	Ser	Ser	Cys	Leu	Val	Ile	Gly
	130					135					140				
Ser	Leu	Ala	Leu	Thr	Gly	Ile	Pro	Phe	Leu	Thr	Gly	Phe	Tyr	Ser	Lys
145					150					155					160
Asp	Leu	Ile	Ile	Glu	Ala	Ile	Asn	Thr	Cys	Asn	Thr	Asn	Ala		
				165					170						

<210> 224
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 224

Phe	Leu	Lys	Thr	Thr	Ala	Leu	Ile	Ile	Ser	Val	Leu	Gly	Phe	Leu	Ile
1				5					10					15	
Ala	Leu	Glu	Leu	Asn	Asn	Leu	Thr	Ile	Lys	Leu	Ser	Ile	Asn	Lys	Ala
			20					25					30		
Asn	Pro	Tyr	Ser	Ser	Phe	Ser	Thr	Leu	Leu	Gly	Phe	Phe	Pro	Ser	Ile
			35				40					45			
Ile	His	Arg	Ile	Thr	Pro	Ile	Lys	Ser	Leu	Asn	Leu	Ser	Leu	Lys	Thr
	50					55					60				

Ser Leu Thr Leu Leu Asp Leu Ile Trp Leu Glu Lys Thr Ile Pro Lys
65 70 75 80

Ser Thr Ser Thr Leu His Thr Asn Ile Thr Thr Leu Thr Thr Asn Gln
85 90 95

Lys Gly Leu Ile Lys Leu Tyr Phe Ile Ser Phe Leu Ile Asn Ile Ile
100 105 110

Leu Ile Ile Ile Leu Tyr Ser Ile Asn Leu Glu
115 120

<210> 225

<211> 129

<212> PRT

<213> Homo sapiens

<400> 225

Asn Met Leu Leu Ala Glu Val Arg Ile Ser Met Val Ile Arg Asn Ser
1 5 10 15

Val Arg Tyr Leu Met Asn Arg Leu Met Phe Gly Ser Glu Cys Ile Tyr
20 25 30

His Glu Glu Asn Cys Ile Ile Asp His Val Thr Lys Arg Ala Thr Asp
35 40 45

Val Asn Arg Ile Glu Lys Lys Ser Val Leu Lys Leu Ile Leu Ser Ser
50 55 60

Ile Glu Phe Met Val Thr Gln Cys Gln Val Val Ile Ile Tyr Ser Ile
65 70 75 80

Leu Leu Trp Lys Asn Ile Asn Arg Gly Lys Arg Leu Ile Met Lys Glu
85 90 95

Asn Leu Ile Asp Val Val Val Tyr Ser Gly Lys Leu Met Cys Leu Ile
100 105 110

Arg Phe Asp Ile Glu Ile Arg Ile Gly Asp Ser Arg Arg Met Lys Ile
115 120 125

Lys

<210> 226

<211> 83

<212> PRT

<213> Homo sapiens

<400> 226

Phe Phe Phe Phe Phe Phe Phe Ala Ile Gln Met Asn Val Tyr Phe Leu
1 5 10 15

Asn Pro His Arg Val Arg Ala Glu Leu Arg Asp Ala Trp His Ser Ile
20 25 30

Ser His Pro Gly Ser Leu Pro Arg Ser Phe Phe Phe Ala Gly Ser Ile
 35 40 45
 Leu Asp Leu Tyr His Phe Leu Gln Arg Gln Tyr Pro Glu Trp Gln Ser
 50 55 60
 Gln Val Tyr Phe Lys Val Gly Val Phe Ser Gly Ser Arg Gly Asp Trp
 65 70 75 80
 Ile Pro Ser

<210> 227
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 227
 Ser Met Met Leu Phe Lys Val Leu Val Ile Thr Val Phe Cys Gly Leu
 1 5 10 15
 Thr Val Ala Phe Pro Leu Ser Glu Leu Val Ser Ile Asn Lys Glu Leu
 20 25 30
 Gln Asn Ser Ile Ile Asp Leu Leu Asn Ser Val Phe Asp Gln Leu Gly
 35 40 45
 Ser Tyr Arg Gly Thr Lys Ala Pro Leu Glu Asp Tyr Thr Asp Asp Asp
 50 55 60
 Leu Ser Thr Asp Ser Glu Gln Ile Met Asp Phe Thr Pro Ala Ala Asn
 65 70 75 80
 Lys Gln Asn Ser Glu Phe Ser Thr Asp Val Glu Thr Val Ser Ser Gly
 85 90 95
 Phe Leu Glu Glu Phe Thr Glu Asn Thr Asp Ile Thr Val Lys Ile Pro
 100 105 110
 Leu Ala Gly Asn Pro Val Ser Pro Thr Ser
 115 120

<210> 228
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 228
 Thr Ser Thr Thr Val Phe Phe Phe Pro Phe His Leu Ser Leu Pro Val
 1 5 10 15
 Gly Cys Thr Val Cys Ser His Ala Leu Cys Ile Asn Ile Leu Glu Ile
 20 25 30
 Tyr Arg Ser Val Leu Tyr Phe Leu Tyr Cys Trp Ile Leu Ile Ile Lys
 35 40 45

Thr Phe Thr Arg Val Leu Asn Lys Ser Ser Leu Thr Arg Lys
 50 55 60

<210> 229
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 229
 Ala Arg Pro Cys Met Asn Ser Thr Lys Ala Leu Pro His Gly Arg Glu
 1 5 10 15
 His Thr Arg Leu Lys Met Leu Ser Tyr Leu Lys Asn Lys Met Cys Lys
 20 25 30
 Ser Ser Gly Trp His Lys Thr Lys Val Asn Ala Ser Trp Gly Thr Phe
 35 40 45
 Leu Arg Gly Leu Ala Glu Cys Val Asn Ile Ile Asp Phe Cys Leu Cys
 50 55 60
 Tyr Met Thr Ser Val Thr Ser Leu Lys Ile Cys Thr Ile Gln Phe Gln
 65 70 75 80
 Leu Trp Ile Thr Ser Val Asp Leu Cys Glu Gly Phe Tyr Leu Cys Arg
 85 90 95
 Met Gly Val

<210> 230
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 230
 Gly Glu Leu Gln Lys Ser Ser His Tyr His Pro Pro Glu Leu Phe Glu
 1 5 10 15
 Met Ile Phe Phe Val His Phe Gly Cys Ser Ile Gly Gly Arg Ile Tyr
 20 25 30
 Tyr Asn Met Asp His Leu Tyr Phe Cys Ile Tyr Leu Phe Ile Thr Arg
 35 40 45
 Pro Gln Pro Gln Ser Ser Phe Ser Pro Ser Thr Ser Leu Cys Leu
 50 55 60

<210> 231
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 231
 Ile Asn Lys Tyr Arg Ser Arg Asp Asp Pro Tyr Tyr Ser Ile Phe Tyr

1	5	10	15
His Gln Tyr Cys Ser Gln Asn Val Gln Lys Lys Ser Phe Gln Ile Thr	20	25	30
Gln Glu Asp Asp Asn Gly Trp Thr Phe Val Ile His Leu Lys Asp Cys	35	40	45
Gly Arg Ala Asn Ser Thr His Cys Ile Val Cys Ala Tyr Gly Gly Leu	50	55	60

<210> 232
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 232
Pro Leu Phe Cys Ala Ile Leu Lys Thr Cys Thr Phe Tyr Phe Ser Asp
1 5 10 15
Ser Leu Thr Phe Leu Ile Glu Cys Val Leu Tyr His Ala Val Met Leu
20 25 30
Trp Tyr Tyr Ser Tyr Arg Val Leu Pro Ile Leu Lys Thr Cys His Phe
35 40 45
Pro Lys Arg Ser Phe Asp Ser Ala Leu Glu Val Leu His Lys Leu Lys
50 55 60
Ser Leu Ser Asn Ile Asn Met Lys Gly Gly Thr Gly Cys Asn Ile Tyr
65 70 75 80
Ser Gln Val Thr Ser Leu Tyr Ile
85

<210> 233
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 233
Ala Ser Thr Ile Met Asp Leu Leu Phe Gly Arg Arg Lys Thr Pro Glu
1 5 10 15
Glu Leu Leu Arg Gln Asn Gln Arg Ala Leu Asn Arg Ala Met Arg Glu
20 25 30
Leu Asp Arg Glu Arg Gln Lys Leu Glu Thr Gln Glu Lys Lys Ile Ile
35 40 45
Ala Asp Ile Lys Lys Met Ala Lys Gln Gly Gln Met Asp Ala Val Arg
50 55 60
Ile Met Ala Lys Asp Leu Val Arg Thr Arg Arg Tyr Val Arg Lys Phe
65 70 75 80

[illegible]

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<210> 234
<211> 120
<212> PRT
<213> Homo sapiens
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<400> 234															
Arg	Arg	Val	Arg	Thr	Lys	Ser	Phe	Ala	Met	Met	Arg	Thr	Ala	Ser	Ile
1				5					10					15	
Trp	Pro	Cys	Leu	Ala	Ile	Phe	Leu	Met	Ser	Ala	Met	Ile	Phe	Phe	Ser
			20					25					30		
Trp	Val	Ser	Ser	Phe	Cys	Arg	Ser	Arg	Ser	Ser	Ser	Arg	Met	Ala	Arg
		35					40					45			
Phe	Arg	Ala	Leu	Trp	Phe	Cys	Arg	Ser	Ser	Ser	Ser	Gly	Val	Phe	Arg
	50					55					60				
Arg	Pro	Asn	Asn	Arg	Ser	Met	Met	Val	Glu	Ala	His	Trp	Gln	Ala	Gly
65					70					75					80
Ala	Gly	Thr	Asp	Thr	Arg	Phe	Arg	Phe	Arg	Val	Thr	Leu	Leu	Phe	Leu
				85					90					95	
Gly	Ser	Pro	Thr	Cys	Pro	Pro	Thr	Lys	Ala	Pro	Arg	Ser	Cys	Arg	Arg
			100					105					110		
Arg	Arg	Arg	Phe	Arg	Gly	Arg	Val								
		115					120								

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<210> 235
<211> 121
<212> PRT
<213> Homo sapiens
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<400> 235
Lys Leu Pro Gln Asn Pro Arg Asp His Gln Met Gln Gln Phe Asn Pro
1 5 10 15

Leu Leu Leu His Ile His Asp Leu Cys Leu Pro Leu Lys Leu His His
 20 25 30
 Asp Leu Leu Asp Leu Gly Gln Leu Gln Leu Ser Val His Gly Ala His
 35 40 45
 Gly Leu Gly Asp Thr Leu His Gly Leu Cys His Arg Val Val Gly Leu
 50 55 60
 Glu Cys Leu Asp Leu Glu Gly His Ser Leu Asp Val Gly Pro His Gln
 65 70 75 80
 Tyr Lys Leu Ala His Ile Ala Pro Gly Ala His Gln Val Phe Cys His
 85 90 95
 Asp Ala Asn Ser Ile His Leu Ala Leu Leu Gly His Leu Leu Asn Val
 100 105 110
 Cys Asn Asp Phe Leu Leu Leu Gly Leu
 115 120

<210> 236

<211> 180

<212> PRT

<213> Homo sapiens

<400> 236

Lys Thr Lys Arg Ser Val Lys Asp Ala Ala Lys Lys Gly Gln Lys Asp
 1 5 10 15
 Val Cys Ile Val Leu Ala Lys Glu Met Ile Arg Ser Arg Lys Ala Val
 20 25 30
 Ser Lys Leu Tyr Ala Ser Lys Ala His Met Asn Ser Val Leu Met Gly
 35 40 45
 Met Lys Asn Gln Leu Ala Val Leu Arg Val Ala Gly Ser Leu Gln Lys
 50 55 60
 Ser Thr Glu Val Met Lys Ala Met Gln Ser Leu Val Lys Ile Pro Glu
 65 70 75 80
 Ile Gln Ala Thr Met Arg Glu Leu Ser Lys Glu Met Met Lys Ala Gly
 85 90 95
 Ile Ile Glu Glu Met Leu Glu Asp Thr Phe Glu Ser Met Asp Asp Gln
 100 105 110
 Glu Glu Met Glu Glu Glu Ala Glu Met Glu Ile Asp Arg Ile Leu Phe
 115 120 125
 Glu Ile Thr Ala Gly Ala Leu Gly Lys Ala Pro Ser Lys Val Thr Asp
 130 135 140
 Ala Leu Pro Glu Pro Glu Pro Pro Gly Ala Met Ala Ala Ser Glu Asp
 145 150 155 160

Gly Asp Val Arg Gly His Phe
100

<210> 239

<211> 351

<212> PRT

<213> Homo sapiens

<400> 239

Thr Trp Cys Thr Thr Thr Met Leu Ala Ala Arg Leu Val Cys Leu Arg
1 5 10 15

Thr Leu Pro Ser Arg Val Phe His Pro Ala Phe Thr Lys Ala Ser Pro
20 25 30

Val Val Lys Asn Ser Ile Thr Lys Asn Gln Trp Leu Leu Thr Pro Ser
35 40 45

Arg Glu Tyr Ala Thr Lys Thr Arg Ile Gly Ile Arg Arg Gly Arg Thr
50 55 60

Gly Gln Glu Leu Lys Glu Ala Ala Leu Glu Pro Ser Met Glu Lys Ile
65 70 75 80

Phe Lys Ile Asp Gln Met Gly Arg Trp Phe Val Ala Gly Gly Ala Ala
85 90 95

Val Gly Leu Gly Ala Leu Cys Tyr Tyr Gly Leu Gly Leu Ser Asn Glu
100 105 110

Ile Gly Ala Ile Glu Lys Ala Val Ile Trp Pro Gln Tyr Val Lys Asp
115 120 125

Arg Ile His Ser Thr Tyr Met Tyr Leu Ala Gly Ser Ile Gly Leu Thr
130 135 140

Ala Leu Ser Ala Ile Ala Ile Ser Arg Thr Pro Val Leu Met Asn Phe
145 150 155 160

Met Met Arg Gly Ser Trp Val Thr Ile Gly Val Thr Phe Ala Ala Met
165 170 175

Val Gly Ala Gly Met Leu Val Arg Ser Ile Pro Tyr Asp Gln Ser Pro
180 185 190

Gly Pro Lys His Leu Ala Trp Leu Leu His Ser Gly Val Met Gly Ala
195 200 205

Val Val Ala Pro Leu Thr Ile Leu Gly Gly Pro Leu Leu Ile Arg Ala
210 215 220

Ala Trp Tyr Thr Ala Gly Ile Val Gly Gly Leu Ser Thr Val Ala Met
225 230 235 240

Cys Ala Pro Ser Glu Lys Phe Leu Asn Met Gly Ala Pro Leu Gly Val
245 250 255

Gly Leu Gly Leu Val Phe Val Ser Ser Leu Gly Ser Met Phe Leu Pro
 260 265 270

Pro Thr Thr Val Ala Gly Ala Thr Leu Tyr Ser Val Ala Met Tyr Gly
 275 280 285

Gly Leu Val Leu Phe Ser Met Phe Leu Leu Tyr Asp Thr Gln Lys Val
 290 295 300

Ile Lys Arg Ala Glu Val Ser Pro Met Tyr Gly Val Gln Lys Tyr Asp
 305 310 315 320

Pro Ile Asn Ser Met Leu Ser Ile Tyr Met Asp Thr Leu Asn Ile Phe
 325 330 335

Met Arg Val Ala Thr Met Leu Ala Thr Gly Gly Asn Arg Lys Lys
 340 345 350

<210> 240

<211> 147

<212> PRT

<213> Homo sapiens

<400> 240

Arg Val Ala Pro Ala Thr Val Val Gly Gly Arg Asn Ile Asp Pro Asn
 1 5 10 15

Glu Asp Thr Lys Thr Arg Pro Arg Pro Thr Pro Arg Gly Ala Pro Met
 20 25 30

Phe Arg Asn Phe Ser Leu Gly Ala His Met Ala Thr Val Glu Arg Pro
 35 40 45

Pro Thr Met Pro Ala Val Tyr His Ala Ala Leu Met Arg Arg Gly Pro
 50 55 60

Pro Asn Ile Val Arg Gly Ala Thr Thr Ala Pro Ile Thr Pro Glu Cys
 65 70 75 80

Ser Asn Gln Ala Arg Cys Phe Gly Pro Gly Leu Trp Ser Tyr Gly Ile
 85 90 95

Asp Arg Thr Ser Ile Pro Ala Pro Thr Met Ala Ala Lys Val Thr Pro
 100 105 110

Ile Val Thr Gln Glu Pro Leu Ile Met Lys Phe Met Arg Thr Gly Val
 115 120 125

Leu Leu Ile Ala Met Ala Asp Lys Ala Val Lys Pro Ile Leu Pro Ala
 130 135 140

Lys Tyr Ile
 145

<210> 241

<211> 196
 <212> PRT
 <213> Homo sapiens

<400> 241

Lys	Ala	Arg	Arg	Arg	Gly	Thr	Met	Ala	Ala	Ala	Ala	Asp	Glu	Arg	Ser
1				5					10					15	
Pro	Glu	Asp	Gly	Glu	Asp	Glu	Glu	Glu	Glu	Glu	Gln	Leu	Val	Leu	Val
			20					25					30		
Glu	Leu	Ser	Gly	Ile	Ile	Asp	Ser	Asp	Phe	Leu	Ser	Lys	Cys	Glu	Asn
		35					40					45			
Lys	Cys	Lys	Val	Leu	Gly	Ile	Asp	Thr	Glu	Arg	Pro	Ile	Leu	Gln	Val
	50					55					60				
Asp	Ser	Cys	Val	Phe	Ala	Gly	Glu	Tyr	Glu	Asp	Thr	Leu	Gly	Thr	Cys
65					70					75					80
Val	Ile	Phe	Glu	Glu	Asn	Val	Glu	His	Ala	Asp	Thr	Glu	Gly	Asn	Asn
				85					90					95	
Lys	Thr	Val	Leu	Lys	Tyr	Lys	Cys	His	Thr	Met	Lys	Lys	Leu	Ser	Met
		100						105					110		
Thr	Arg	Thr	Leu	Leu	Thr	Glu	Lys	Lys	Glu	Gly	Glu	Glu	Asn	Ile	Gly
		115					120					125			
Gly	Val	Glu	Trp	Leu	Gln	Ile	Lys	Asp	Asn	Asp	Phe	Ser	Tyr	Arg	Pro
	130					135					140				
Asn	Met	Ile	Cys	Asn	Phe	Leu	His	Glu	Asn	Glu	Asp	Glu	Glu	Val	Val
145					150					155					160
Ala	Ser	Ala	Pro	Asp	Lys	Ser	Leu	Glu	Leu	Glu	Glu	Glu	Glu	Ile	Gln
				165					170					175	
Met	Asn	His	Arg	Phe	Lys	Pro	Gly	Phe	Val	Glu	Pro	Gly	Glu	Pro	Ile
		180						185					190		
Ala	Pro	Trp	Glu												
		195													

<210> 242
 <211> 156
 <212> PRT
 <213> Homo sapiens

<400> 242

Pro	Pro	Ala	Pro	Ala	Leu	Arg	His	Arg	Glu	Thr	Arg	Arg	Pro	Val	Ala
1				5					10					15	
Ser	Leu	His	Val	Gly	Thr	Gly	Ala	Leu	Gly	Ala	Arg	Ser	His	Pro	Pro
			20					25					30		
Ala	Gly	Ser	Arg	His	Leu	Glu	Phe	Trp	Gln	Lys	Gln	Phe	Ala	Arg	Arg

35	40	45
Gly Ala Asp Gly Gln Glu Pro Asn Lys Leu Leu Arg Leu Gly Ala Glu		
50	55	60
Ala Arg Thr Gln Asp Gly Gly Ser Gly Arg Ala Trp Pro Val Thr Arg		
65	70	75
Arg Arg Gly Ala Ala Gly Pro Trp Arg Arg Arg Arg Thr Ser Gly Val		
	85	90
Gln Arg Thr Glu Lys Thr Arg Lys Arg Arg Ser Ser Trp Phe Trp Trp		
100	105	110
Asn Tyr Gln Glu Leu Leu Ile Gln Thr Ser Ser Gln Asn Val Lys Ile		
115	120	125
Asn Ala Arg Phe Trp Ala Leu Thr Leu Arg Gly Pro Phe Cys Lys Trp		
130	135	140
Thr Ala Val Ser Leu Leu Gly Ser Met Lys Thr Leu		
145	150	155

<210> 243

<211> 132

<212> PRT

<213> Homo sapiens

<400> 243

Arg Arg Leu Glu Val Ser Tyr Arg Gln His His Phe Arg Val Ser Leu		
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Ala Pro Trp Ser Lys Met Ala Asp Glu Ala Thr Arg Arg Val Val Ser		
20	25	30
Glu Ile Pro Val Leu Lys Thr Asn Ala Gly Pro Arg Asp Arg Glu Leu		
35	40	45
Trp Val Gln Arg Leu Lys Glu Glu Tyr Gln Ser Leu Ile Arg Tyr Val		
50	55	60
Glu Asn Asn Lys Asn Ala Asp Asn Asp Trp Phe Arg Leu Glu Ser Asn		
65	70	75
Lys Glu Gly Thr Arg Trp Phe Gly Lys Cys Trp Tyr Ile His Asp Leu		
	85	90
Leu Lys Tyr Glu Phe Asp Ile Glu Phe Asp Ile Pro Ile Thr Tyr Pro		
100	105	110
Thr Thr Ala Pro Glu Ile Ala Val Pro Glu Leu Asp Gly Lys Thr Ala		
115	120	125
Lys Met Tyr Arg		
130		

<210> 244
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 244
 Leu Phe Ala Ile Ser Tyr Ser Val Leu Pro Val His Leu Cys Cys Leu
 1 5 10 15
 Ser Ile Gln Leu Arg Asn Cys Asn Phe Trp Gly Ser Ser Arg Ile Cys
 20 25 30
 Asp Arg Asn Val Lys Leu Asp Val Lys Leu Ile Phe Gln Glu Val Met
 35 40 45
 Asp Ile Pro Ala Phe Ser Lys Pro Pro Ser Ser Phe Leu Val Gly Leu
 50 55 60
 Gln Ser Glu Pro Ile Val Val Ser Ile Leu Val Val Leu His Ile Pro
 65 70 75 80
 Asp Lys Gly Leu Ile Phe Leu Leu Gln Ser Leu His Pro Gln Leu Thr
 85 90 95
 Ile Ser Gly Ser Gly Val Ser Leu Gln His Arg Asp Leu Arg His Asn
 100 105 110
 Thr Ser Arg Gly Phe Ile Arg His Leu Gly Pro Gly Arg Lys Arg Asn
 115 120 125
 Ala Glu Val Val Leu Pro Val Ala Tyr Leu Lys Ala Pro Ser Ser Leu
 130 135 140
 Leu Trp Glu Asp Glu Thr Leu Gly Cys Cys Lys Thr Ser Phe Glu
 145 150 155

<210> 245
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 <212> PRT
 <213> Homo sapiens

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 Ala Thr Leu Pro Asp Ala Leu Pro Pro Ala Thr Lys Phe Phe Leu Lys
 1 5 10 15
 Ala Phe Phe Asp Ser Leu Pro Ser Pro Ile Gln Ser Tyr Leu Tyr Ile
 20 25 30
 Phe Ala Val Phe Pro Ser Ser Ser Gly Thr Ala Ile Ser Gly Ala Val
 35 40 45
 Val Gly Tyr Val Ile Gly Met Ser Asn Ser Met Ser Asn Ser Tyr Phe
 50 55 60
 Arg Arg Ser Trp Ile Tyr Gln His Phe Pro Asn His Arg Val Pro Ser
 65 70 75 80

Leu Leu Asp Ser Ser Arg Asn Gln Ser Leu Ser Ala Phe Leu Leu Phe
 85 90 95

Ser Thr Tyr Arg Ile Arg Asp
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<210> 246

<211> 285

<212> PRT

<213> Homo sapiens

<400> 246

Ala Val Arg Arg Arg Gly Ala Leu Ser Leu Ser Val Gly Ala Ala Cys
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Gly Leu Val Ala Leu Trp Gln Arg Arg Arg Gln Asp Ser Gly Thr Met
 20 25 30

Ser Gly Phe Ser Thr Glu Glu Arg Ala Ala Pro Phe Ser Leu Glu Tyr
 35 40 45

Arg Val Phe Leu Lys Asn Glu Lys Gly Gln Tyr Ile Ser Pro Phe His
 50 55 60

Asp Ile Pro Ile Tyr Ala Asp Lys Asp Val Phe His Met Val Val Glu
 65 70 75 80

Val Pro Arg Trp Ser Asn Ala Lys Met Glu Ile Ala Thr Lys Asp Pro
 85 90 95

Leu Asn Pro Ile Lys Gln Asp Val Lys Lys Gly Lys Leu Arg Tyr Val
 100 105 110

Ala Asn Leu Phe Pro Tyr Lys Gly Tyr Ile Trp Asn Tyr Gly Ala Ile
 115 120 125

Pro Gln Thr Trp Glu Asp Pro Gly His Asn Asp Lys His Thr Gly Cys
 130 135 140

Cys Gly Asp Asn Asp Pro Ile Asp Val Cys Glu Ile Gly Ser Lys Val
 145 150 155 160

Cys Ala Arg Gly Glu Ile Ile Gly Val Lys Val Leu Gly Ile Leu Ala
 165 170 175

Met Ile Asp Glu Gly Glu Thr Asp Trp Lys Val Ile Ala Ile Asn Val
 180 185 190

Asp Asp Pro Asp Ala Ala Asn Tyr Asn Asp Ile Asn Asp Val Lys Arg
 195 200 205

Leu Lys Pro Gly Tyr Leu Glu Ala Thr Val Asp Trp Phe Arg Arg Tyr
 210 215 220

Lys Val Pro Asp Gly Lys Pro Glu Asn Glu Phe Ala Phe Asn Ala Glu
 225 230 235 240

Phe Lys Asp Lys Asp Phe Ala Ile Asp Ile Ile Lys Ser Thr His Asp
245 250 255

His Trp Lys Ala Leu Val Thr Lys Lys Thr Asn Gly Lys Arg Ile Met
260 265 270

Leu Ile Val Gln Leu Phe Val Gly Pro Leu Lys Val Cys
275 280 285

<210> 247

<211> 94

<212> PRT

<213> Homo sapiens

<400> 247

Thr Lys Gly Leu Arg Ile Ala Gln Ala Gln Leu Cys Pro Gly Ser Pro
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Arg Cys Arg Ser Gln Ser Ile Ser Arg Arg Ala Cys Ala Leu Cys Leu
20 25 30

Arg Pro Ser Thr Gln Pro Asn Thr Thr Tyr Leu Arg Lys Pro Gly Gly
35 40 45

Arg Lys Arg Ala Val Gly His Lys Ser Pro Ala Glu Thr Arg Val Pro
50 55 60

Ala Ser Val Gln Arg Ser Gln Pro Pro Arg Ala His Arg Lys Ser Cys
65 70 75 80

Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu Ser
85 90

<210> 248

<211> 113

<212> PRT

<213> Homo sapiens

<400> 248

Asp Pro Arg Pro Ser Arg Ile Gln His Ile Ser Gly Asn Pro Ala Gly
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Ala Ser Glu Arg Leu Ala Ile Arg Ala Gln Leu Lys Arg Glu Tyr Leu
20 25 30

Leu Gln Tyr Asn Asp Pro Asn Arg Arg Gly Leu Ile Glu Asn Pro Ala
35 40 45

Leu Leu Arg Trp Ala Tyr Ala Arg Thr Ile Asn Val Tyr Pro Asn Phe
50 55 60

Arg Pro Thr Pro Lys Asn Ser Leu Met Gly Ala Leu Cys Gly Phe Gly
65 70 75 80

Pro Leu Ile Phe Ile Tyr Tyr Ile Ile Lys Thr Glu Arg Asp Arg Lys
85 90 95

Glu Lys Leu Ile Gln Glu Gly Lys Leu Asp Arg Thr Phe His Leu Ser
 100 105 110

Tyr

<210> 249

<211> 98

<212> PRT

<213> Homo sapiens

<400> 249

Val Phe Arg Ser Gly Ser Glu Ile Arg Ile Asp Ile Tyr Cys Ser Cys
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Ile Gly Pro Thr Lys Gln Gly Arg Ile Phe Asp Glu Pro Ser Ala Val
 20 25 30

Gly Ile Val Val Leu Lys Gln Val Leu Ser Phe Gln Leu Gly Ser Tyr
 35 40 45

Gly Gln Pro Leu Ala Cys Ala Arg Arg Val Ser Gly Asp Met Leu Tyr
 50 55 60

Ser Ala Gly Ser Arg Val Ser Gly Arg Val Arg Arg Leu Asp Gly Leu
 65 70 75 80

Tyr Phe Gly Asn Asp Ile Leu Ala Asn Gln Gly Thr Ile Ala Pro Ala
 85 90 95

Arg Phe

<210> 250

<211> 158

<212> PRT

<213> Homo sapiens

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Thr Gln Val Met Val Gln Ser Met Phe Ala Pro Thr Asp Thr Ser Asp
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Met Glu Ala Val Trp Lys Glu Ala Lys Pro Glu Asp Leu Met Asp Ser
 20 25 30

Lys Leu Arg Cys Val Phe Glu Leu Pro Ala Glu Asn Asp Lys Pro His
 35 40 45

Asp Val Glu Ile Asn Lys Ile Ile Ser Thr Thr Ala Ser Lys Thr Glu
 50 55 60

Thr Pro Ile Val Ser Lys Ser Leu Ser Ser Ser Leu Asp Asp Thr Glu
 65 70 75 80

Val Lys Lys Val Met Glu Glu Cys Lys Arg Leu Gln Gly Glu Val Gln
 85 90 95

Arg Leu Arg Glu Glu Asn Lys Gln Phe Lys Glu Glu Asp Gly Leu Arg
 100 105 110

Met Arg Lys Thr Val Gln Ser Asn Ser Pro Ile Ser Ala Leu Ala Pro
 115 120 125

Thr Gly Lys Glu Glu Gly Leu Ser Thr Arg Leu Leu Ala Leu Val Val
 130 135 140

Leu Phe Phe Ile Val Gly Val Ile Ile Gly Lys Ile Ala Leu
 145 150 155

<210> 251
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 251
 Val Asn Lys Ala Leu Pro Phe Ile Ser Lys Ala Leu Gly Gln Ser Val
 1 5 10 15

Asn Thr Arg Leu Ser Leu Met Thr Ser Thr Ser Asp Ala Ala Thr Val
 20 25 30

Gln Phe Leu Trp Ala Ser Asp Ser Val His Gln Ser Gln Gly Ala Asp
 35 40 45

Gly Leu Asp Arg Thr Glu Asp Thr Glu Ser Ser Leu Gly Arg Glu Trp
 50 55 60

Ala Thr Trp Gly Leu Leu Cys Gly Ala Asp Arg Thr Pro Gln His Ala
 65 70 75 80

Gly Leu Gln Leu Pro Lys Gly Gln His Gln Gln Ala Arg Lys Gly Val
 85 90 95

Ile Leu Arg Glu Val Ile Gln His His Val Pro Arg Pro Thr Asn Val
 100 105 110

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 <212> PRT
 <213> Homo sapiens

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 Ser Lys Gly Cys Ser Ile Thr Glu Thr Val Thr Val Asp Pro Gly Ser
 1 5 10 15

Ile Ile Pro Leu Leu Gly Leu Thr Gln Tyr Arg Arg Gly Ala Val Val
 20 25 30

Phe Thr Leu Lys His Thr Phe Leu Ser Asp Gly Phe Arg Asn Leu Arg
 35 40 45

Phe Val Val Thr Thr Ser Val Lys Gly Pro Leu Asn Leu Arg Ser Val
 50 55 60

Gly Gly Ser Arg Thr Arg Ile Cys Ser Ser Ser Pro Trp Pro Leu Arg
 65 70 75 80
 Arg Thr Pro Ser Glu Arg Gln Arg Arg Ala Gly Gly Gly Leu Leu Ala
 85 90 95
 Gly Gly Gly Gly Arg Trp Arg Glu Gly Arg Gly Ser Glu Phe Ala Ser
 100 105 110
 Leu Leu Phe Leu Val Arg Leu Cys Ser Thr Thr Phe Leu Cys Trp Gln
 115 120 125
 Ile Cys Phe Gln Ile Asp Phe
 130 135

<210> 253
 <211> 189
 <212> PRT
 <213> Homo sapiens

<400> 253
 Ser Met Gln Ser Ala Val Ser Phe Phe Phe Phe Ser Leu Asp Gln Lys
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 Lys Ile Cys Leu Pro Thr Ile Ser Leu Val Val Trp Pro Thr Val Thr
 20 25 30
 Ile Phe Leu Cys Val Gln Arg His Ile Gly Phe Ala Phe Asn Asp Leu
 35 40 45
 Leu Arg Leu Glu Asn Thr Ile Lys Thr Asn Cys Ser Ala Thr Gly Gln
 50 55 60
 Val Val Tyr Tyr Gln Ile Ile Thr Ser Arg Cys Gln Leu His Ile Glu
 65 70 75 80
 Ser Phe Met Lys Phe Ile Asn Lys Glu Leu Phe Phe Leu Cys Gly Phe
 85 90 95
 Asn Lys Ser Ser Arg Ile Val Gln Ser Leu Val Asn Val Ile Leu Ile
 100 105 110
 Ile Pro Leu Asn Phe Ile Cys Cys Cys Tyr Leu Leu Lys Tyr Asp Leu
 115 120 125
 Phe Arg Leu Leu Ile Pro Leu Ile Gln Glu Met Pro Arg Gly Ile Pro
 130 135 140
 Trp Gly Asn Gly Ala Ser Tyr Ser Val Asn Phe Ser Ser Phe Thr Phe
 145 150 155 160
 Ala Asn Ile Met Ala Glu Phe Phe Leu Ser Leu Val Arg Gln Leu Leu
 165 170 175
 Thr Glu Phe Phe Ile Leu Thr Ile Leu Ser His Gly Ile
 180 185

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 <212> PRT
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 Ser Leu Thr Arg Lys Arg Arg Asp Ala Asn Ser Leu Pro Leu Pro Ser
 20 25 30
 Arg His Arg Pro Pro Pro Pro Ala Ser Lys Pro Pro Pro Ala Leu Arg
 35 40 45
 Cys Leu Ser Asp Gly Val Arg Leu Arg Gly His Gly Glu Asp Glu Gln
 50 55 60
 Ile Leu Val Leu Asp Pro Pro Thr Asp Leu Lys Phe Lys Gly Pro Phe
 65 70 75 80
 Thr Asp Val Val Thr Thr Asn Leu Lys Leu Arg Asn Pro Ser Asp Arg
 85 90 95
 Lys Val Cys Phe Lys Val Lys Thr Thr Ala Pro Arg Arg Tyr Cys Val
 100 105 110
 Arg Pro Asn Ser Gly Ile Ile Asp Pro Gly Ser Thr Val Thr Val Ser
 115 120 125
 Val Met Leu Gln Pro Phe Asp Tyr Asp Pro Asn Glu Lys Ser Lys His
 130 135 140
 Lys Phe Met Val Gln Thr Ile Phe Ala Pro Pro Asn Thr Ser Asp Met
 145 150 155 160
 Glu Ala Val Trp Lys Glu Ala Lys Pro Asp Glu Leu Met Asp Ser Lys
 165 170 175
 Leu Arg Cys Val Phe Glu Met Pro Asn Glu Asn Asp Lys Leu Asn Asp
 180 185 190
 Met Glu Pro Ser Lys Ala Val Pro Leu Asn Ala Ser Lys Gln Asp Gly
 195 200 205
 Pro Met Pro Lys Pro His Ser Val Ser Leu Asn Asp Thr Glu Thr Arg
 210 215 220
 Lys Leu Met Glu Glu Cys Lys Arg Leu Gln Gly Glu Met Met Lys Leu
 225 230 235 240
 Ser Glu Glu Asn Arg His Leu Arg Asp Glu Gly Leu Arg Leu Arg Lys
 245 250 255
 Val Ala His Ser Asp Lys Pro Gly Ser Thr Ser Thr Ala Ser Phe Arg
 260 265 270

Asp Asn Val Thr Ser Pro Leu Pro Ser Leu Leu Val Val Ile Ala Ala
 275 280 285

Ile Phe Ile Gly Phe Phe Leu Gly Lys Phe Ile Leu
 290 295 300

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Gly Ser Ser Gly Ser Arg Phe Glu Val Val Val Val Leu Glu Glu Arg
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Arg Gly Gly Arg Gly Arg Gly Met Gly Arg Gly Asp Gly Phe Asp Ser
 20 25 30

Arg Gly Lys Arg Glu Phe Asp Arg His Ser Gly Ser Asp Arg Ser Gly
 35 40 45

Leu Lys His Glu Asp Lys Arg Gly Gly Ser Gly Ser His Asn Trp Gly
 50 55 60

Thr Val Lys Asp Glu Leu Thr Glu Ser Pro Lys Tyr Ile Gln Lys Gln
 65 70 75 80

Ile Ser Tyr Asn Tyr Ser Asp Leu Asp Gln Ser Asn Val Thr Glu Glu
 85 90 95

Thr Pro Glu Gly Glu Glu His His Pro Val Ala Asp Thr Glu Asn Lys
 100 105 110

Glu Asn Glu Val Glu Glu Val Lys Glu Glu Gly Pro Lys Glu Met Thr
 115 120 125

Leu Asp Glu Trp Lys Ala Ile Gln Asn Lys Asp Arg Ala Lys Val Glu
 130 135 140

Phe Asn Ile Arg Lys Pro Asn Glu Gly Ala Asp Gly Gln Trp Lys Lys
 145 150 155 160

Gly Phe Val Leu His Lys Ser Lys Ser Glu Glu Ala His Ala Glu Asp
 165 170 175

Ser Val Met Asp His His Phe Arg Lys Pro Ala Asn Asp Ile Thr Ser
 180 185 190

Gln Leu Glu Ile Asn Phe Gly Asp Leu Gly Arg Pro Gly Arg Gly Gly
 195 200 205

Arg Gly Gly Arg Gly Gly Arg Gly Arg Gly Gly Arg Pro Asn Arg Gly
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Ser Arg Thr Asp Lys Ser Ser Ala Ser Ala Pro Asp Val Asp Asp Pro
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Glu Ala Phe Pro Ala Leu Ala
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Val Leu Val Leu Gln Ala Arg Ser Ile Thr Ser Thr Met Pro Ile Lys
20 25 30
Phe Thr Phe Ala Thr Arg Ile Lys Ser Ile Ser Ser Ala His Ser Thr
35 40 45
Ser Thr Ala Pro Ser Thr Leu Phe Gln Asp His His Asp Leu Glu Ser
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Arg Ala Ala Arg Ala
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Tyr Asp Gly Gly Tyr Gly Gly Phe Asp Asp Tyr Gly Gly Tyr Asn Asn
20 25 30
Tyr Gly Tyr Gly Asn Asp Gly Phe Asp Asp Arg Met Arg Asp Gly Arg
35 40 45
Gly Met Gly Gly His Gly Tyr Gly Gly Ala Gly Asp Ala Ser Ser Gly
50 55 60
Phe His Gly Gly His Phe Val His Met Arg Gly Leu Pro Phe Arg Ala
65 70 75 80
Thr Glu Asn Asp Ile Ala Asn Phe Phe Ser Pro Leu Asn Pro Ile Arg
85 90 95
Val His Ile Asp Ile Gly Ala Asp Gly Arg Ala Thr Gly Glu Ala Asp
100 105 110
Val Glu Phe Val Thr His Glu Asp Ala Val Ala Ala Met Ser Lys Asp
115 120 125
Lys Asn Asn Met Gln His Arg Tyr Ile Glu Leu Phe Leu Asn Ser Thr

130 135 140

Pro Gly Gly Gly Ser Gly Met Gly Gly Ser Gly Met Gly Gly Tyr Gly
145 150 155 160

Arg Asp Gly Met Asp Asn Gln Gly Gly Tyr Gly Ser Val Gly Arg Met
165 170 175

Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
180 185 190

Gly Gly Tyr Gly Arg Gly Gly Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
195 200 205

Gly Gly Met Ser Gly Gly Gly Trp Arg Gly Met Tyr
210 215 220

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gatcagtgtg	tccagaagtt	tctggatatt	gcaagacaga	cagaatgttt	tttcttataa	300
aaaagattgc	agttatctgt	ccagaaacca	gagcaagtta	tcaaagagga	tgtgtcagaa	360
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<212> DNA

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 tggacgtgga atggggccgag gagatggatt tgattctcgt ggcaaacgtg aatttgatag 120
 gcatagtgga agtgatagat ctggcctgaa gcacgaggac aaacgtggag gtagcggatc 180
 tcacaactgg ggaactgtca aagacgaatt aacagagtcc cccaaataca ttcagaaaca 240
 aatatcttat aattacagtg acttggatca atcaaagtgt actgaggaaa cacctgaagg 300
 tgaagaacat catccagtgg cagacactga aaataaggag aatgaagttg aagaggtaaa 360
 agaggagggg ccaaaagaga tgacttttga tgagtgggaag gctattcaaa ataaggaccg 420
 ggcaaaagta gaatttaata tccgaaaacc aaatgaaggt gctgatgggc agtgggaaga 480
 gggatttggt cttcataaat caaagagtga agaggctcat gctgaagatt cggttatgga 540
 ccatactttc cggaagccag caaatgatat aacgtctcag ctggagatca attttggaga 600
 ccttggccgc ccaggacgtg gcggcagggg aggacgaggt ggacgtgggc gtggtgggcg 660
 cccaaaccgt ggcagcagga ccgacaagtc aagtgtctct gctcctgatg tggatgacct 720
 agaggcattc ccagctctgg cttaactgga tgccataaga caaccctggt tcctttgtga 780
 acccttctgt tcaaagcttt tgcatgctta aggattccaa acgactaaga aattaaaaaa 840
 aaaaagactg tcattcatac cattcacacc taaagactga attttatctg ttttaaaaat 900
 gaacttctcc cgctacacag aagtaacaaa tatggtagtc agttttgtat ttagaaatgt 960
 attggtagca gggatgtttt cataattttc agagattatg cattcttcat gaatactttt 1020
 gtattgctgc ttgcaaataat gcattttccaa acttgaaata taggtgtgaa cagtgtgtac 1080
 cagtttaaag ctttcacttc atttgtgttt tttaattaag gatttagaag ttcccccaat 1140
 tacaaaactgg ttttaaatat tggacatact ggttttaata cctgctttgc atattcacac 1200
 atggtcaact gggacatggt aaactttgat ttgtcaaatt ttatgctgtg tggaatacta 1260
 actatatgta ttttaactta gttttaatat tttcattttt ggggaaaaat cttttttcac 1320
 ttctcatgat agctgttata tatatatgct aaatctttat atacagaaat atcagtactt 1380
 gaacaaattc aaagcacatt tggtttatta acccggtggc gccctggcat gggggccatt 1440
 tgggggtccaa attataactg atttacattt tcagcgatat tacttttaaa tgcttgagtt 1500
 ccattttaa atctaactag acacctaatt ggggaagtgt taaccactat gtggtagcca 1560
 cgggccag 1568

<210> 274
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 274
 Lys Gln Val Lys Cys Ala Lys Val Ser Tyr Leu Leu Phe Leu Phe Gln
 1 5 10 15
 Tyr Cys Ala Ile Asp Ser Cys Ile Lys Phe Trp Asn Ala Gly Ser Ser
 20 25 30
 Trp Leu Ser Ser Val Thr Leu Trp Ser Met Ser Ser Val Ser Leu Ser
 35 40 45
 Ala Ser Asn Val Gly Arg Val Arg Ile Lys Ser Glu Gly Cys Ser Thr
 50 55 60
 Gly Asp Lys Leu Ser Leu Gly Val Pro Ala Ser Lys Ala Thr Glu Pro
 65 70 75 80

<400> 275															
Met	Ser	Leu	Val	Leu	Asp	Glu	Phe	Tyr	Ser	Ser	Leu	Arg	Val	Val	Gly
1				5					10					15	
Val	Ser	Ala	Val	Leu	Gly	Thr	Gly	Leu	Asp	Glu	Leu	Phe	Val	Gln	Val
			20					25					30		
Thr	Ser	Ala	Ala	Glu	Glu	Tyr	Glu	Arg	Glu	Tyr	Arg	Pro	Glu	Tyr	Glu
		35					40					45			
Arg	Leu	Lys	Lys	Ser	Leu	Ala	Asn	Ala	Glu	Ser	Gln	Gln	Gln	Arg	Glu
	50					55					60				
Gln	Leu	Glu	Arg	Leu	Arg	Lys	Asp	Met	Gly	Ser	Val	Ala	Leu	Asp	Ala
65					70					75					80
Gly	Thr	Pro	Lys	Asp	Ser	Leu	Ser	Pro	Val	Leu	His	Pro	Ser	Asp	Leu
				85					90					95	
Ile	Leu	Thr	Arg	Pro	Thr	Leu	Glu	Ala	Asp	Ser	Asp	Thr	Asp	Asp	Ile
			100					105					110		
Asp	His	Arg	Val	Thr	Glu	Glu	Ser	His	Glu	Glu	Pro	Ala	Phe	Gln	Asn
		115					120					125			
Phe	Met	Gln	Glu	Ser	Met	Ala	Gln	Tyr	Trp	Lys	Arg	Asn	Asn	Lys	
	130					135					140				

<400> 276
Ile Pro Asn Met Ala Ala Pro Leu Gly Gly Met Phe Ser Gly Gln Pro
1 5 10 15
Pro Gly Pro Pro Gln Ala Pro Pro Gly Leu Pro Gly Gln Ala Ser Leu
20 25 30

Leu Gln Ala Ala Pro Gly Ala Pro Arg Pro Ser Ser Ser Thr Leu Val
 35 40 45
 Asp Glu Leu Glu Ser Ser Phe Glu Ala Cys Phe Ala Ser Leu Val Ser
 50 55 60
 Gln Asp Tyr Val Asn Gly Thr Asp Gln Glu Glu Ile Arg Thr Gly Val
 65 70 75 80
 Asp Gln Cys Ile Gln Lys Phe Leu Asp Ile Ala Arg Gln Thr Glu Cys
 85 90 95
 Phe Phe Leu Gln Lys Arg Leu Gln Leu Ser Val Gln Lys Pro Glu Gln
 100 105 110
 Val Ile Lys Glu Asp Val Ser Glu Leu Arg Asn Glu Leu Gln Arg Lys
 115 120 125
 Asp Ala Leu Val Gln Lys His Leu Thr Lys Leu Arg His Trp Gln Gln
 130 135 140
 Val Leu Glu Asp Ile Asn Val Gln His Lys Lys Pro Ala Asp Ile Pro
 145 150 155 160
 Gln Gly Ser Leu Ala Tyr Leu Glu Gln Ala Ser Ala Asn Ile Pro Ala
 165 170 175
 Pro Leu Lys Pro Thr
 180

<210> 277
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 277
 Asn Glu Leu Ile Ile Trp Gln Arg Val Leu Pro Lys Cys Gln Val His
 1 5 10 15
 Arg Lys Glu Cys Val Ala Asn Leu Thr His Gln Pro Thr His Arg Pro
 20 25 30
 Thr Ala Ser Ala Leu Cys Ser Arg Trp Leu Gln Arg Cys Arg Asp Val
 35 40 45
 Gly Arg Cys Leu Leu Gln Val Gly Gln Gly Ala Leu Arg Asp Val Gly
 50 55 60
 Gly Leu Phe Val Leu His Val Asp Val Leu Gln His Leu Leu Pro Met
 65 70 75 80
 Pro Gln Leu Cys Gln Val Leu Leu Asp
 85

<210> 278

<211> 401
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MOD_RES
 <222> (393)
 <223> Variable amino acid

<400> 278

Met	Pro	Asn	Phe	Cys	Ala	Ala	Pro	Asn	Cys	Thr	Arg	Lys	Ser	Thr	Gln	1	5	10	15
Ser	Asp	Leu	Ala	Phe	Phe	Arg	Phe	Pro	Arg	Asp	Pro	Ala	Arg	Cys	Gln	20	25	30	
Lys	Trp	Val	Glu	Asn	Cys	Arg	Arg	Ala	Asp	Leu	Glu	Asp	Lys	Thr	Pro	35	40	45	
Asp	Gln	Leu	Asn	Lys	His	Tyr	Arg	Leu	Cys	Ala	Lys	His	Phe	Glu	Thr	50	55	60	
Ser	Met	Ile	Cys	Arg	Thr	Ser	Pro	Tyr	Arg	Thr	Val	Leu	Arg	Asp	Asn	65	70	75	80
Ala	Ile	Pro	Thr	Ile	Phe	Asp	Leu	Thr	Ser	His	Leu	Asn	Asn	Pro	His	85	90	95	
Ser	Arg	His	Arg	Lys	Arg	Ile	Lys	Glu	Leu	Ser	Glu	Asp	Glu	Ile	Arg	100	105	110	
Thr	Leu	Lys	Gln	Lys	Lys	Ile	Asp	Glu	Thr	Ser	Glu	Gln	Glu	Gln	Lys	115	120	125	
His	Lys	Glu	Thr	Asn	Asn	Ser	Asn	Ala	Gln	Asn	Pro	Ser	Glu	Glu	Glu	130	135	140	
Gly	Glu	Gly	Gln	Asp	Glu	Asp	Ile	Leu	Pro	Leu	Thr	Leu	Glu	Glu	Lys	145	150	155	160
Glu	Asn	Lys	Glu	Tyr	Leu	Lys	Ser	Leu	Phe	Glu	Ile	Leu	Ile	Leu	Met	165	170	175	
Gly	Lys	Gln	Asn	Ile	Pro	Leu	Asp	Gly	His	Glu	Ala	Asp	Glu	Ile	Pro	180	185	190	
Glu	Gly	Leu	Phe	Thr	Pro	Asp	Asn	Phe	Gln	Ala	Leu	Leu	Glu	Cys	Arg	195	200	205	
Ile	Asn	Ser	Gly	Glu	Glu	Val	Leu	Arg	Lys	Arg	Phe	Glu	Thr	Thr	Ala	210	215	220	
Val	Asn	Thr	Leu	Phe	Cys	Ser	Lys	Thr	Gln	Gln	Arg	Gln	Met	Leu	Glu	225	230	235	240
Ile	Cys	Glu	Ser	Cys	Ile	Arg	Glu	Glu	Thr	Leu	Arg	Glu	Val	Arg	Asp	245	250	255	

Ser His Phe Phe Ser Ile Ile Thr Asp Asp Val Val Asp Ile Ala Gly
 260 265 270
 Glu Glu His Leu Pro Val Leu Val Arg Phe Val Asp Glu Ser His Asn
 275 280 285
 Leu Arg Glu Glu Phe Ile Gly Phe Leu Pro Tyr Glu Ala Asp Ala Glu
 290 295 300
 Ile Leu Ala Val Lys Phe His Thr Met Ile Thr Glu Lys Trp Gly Leu
 305 310 315 320
 Asn Met Glu Tyr Cys Arg Gly Gln Ala Tyr Ile Val Ser Ser Gly Phe
 325 330 335
 Ser Ser Lys Met Lys Val Val Ala Ser Arg Leu Leu Glu Lys Tyr Pro
 340 345 350
 Gln Ala Ile Tyr Thr Leu Cys Ser Ser Cys Ala Leu Asn Met Trp Leu
 355 360 365
 Ala Lys Ser Val Pro Val Met Gly Val Ser Val Ala Leu Gly Thr Ile
 370 375 380
 Glu Glu Val Cys Ser Phe Phe His Xaa Ile Thr Thr Thr Ala Phe Arg
 385 390 395 400

Thr

<210> 279
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MOD_RES
 <222> (17)..(18)
 <223> Variable amino acid

<400> 279
 Met Leu Ile Ser Gly Thr Leu Ser His Gly Thr Thr Gln Ile Gln Tyr
 1 5 10 15
 Xaa Xaa Glu Glu His His Ala Asp Met Tyr Arg Ser Asp Leu Pro Asn
 20 25 30
 Pro Asp Thr Leu Ser Ala Glu Leu His Cys Trp Arg Ile Lys Trp Lys
 35 40 45
 His Arg Gly Lys Asp Ile Glu Leu Pro Ser Thr Ile Tyr Glu Ala Leu
 50 55 60
 His Leu Pro Asp Ile Lys Phe Phe Pro Asn Val Tyr Ala Leu Leu Lys
 65 70 75 80
 Val Leu Cys Ile Leu Pro Val Met Lys Val Glu Asn Glu Arg Tyr Glu
 85 90 95

Asn Gly Thr Lys Ala Ser Leu Lys His Ile
 100 105

<210> 280

<211> 398

<212> PRT

<213> Homo sapiens

<400> 280

Gly Arg Lys Cys Asn Lys Phe Trp Asp Asn Ala Gln Thr Ser Gly Ile
 1 5 10 15

Glu Glu Pro Ser Glu Thr Lys Gly Ser Met Gln Lys Ser Lys Phe Lys
 20 25 30

Tyr Lys Leu Val Pro Glu Glu Glu Thr Thr Ala Ser Glu Asn Thr Glu
 35 40 45

Ile Thr Ser Glu Arg Gln Lys Glu Gly Ile Lys Leu Thr Ile Arg Ile
 50 55 60

Ser Ser Arg Lys Lys Lys Pro Asp Ser Pro Pro Lys Val Leu Glu Pro
 65 70 75 80

Glu Asn Lys Gln Glu Lys Thr Glu Lys Glu Glu Glu Lys Thr Asn Val
 85 90 95

Gly Arg Thr Leu Arg Arg Ser Pro Arg Ile Ser Arg Pro Thr Ala Lys
 100 105 110

Val Ala Glu Ile Arg Asp Gln Lys Ala Asp Lys Lys Arg Gly Glu Gly
 115 120 125

Glu Asp Glu Val Glu Glu Glu Ser Thr Ala Leu Gln Lys Thr Asp Lys
 130 135 140

Lys Glu Ile Leu Lys Lys Ser Glu Lys Asp Thr Asn Ser Lys Val Ser
 145 150 155 160

Lys Val Lys Pro Lys Gly Lys Val Arg Trp Thr Gly Ser Arg Thr Arg
 165 170 175

Gly Arg Trp Lys Tyr Ser Ser Asn Asp Glu Ser Glu Gly Ser Gly Ser
 180 185 190

Glu Lys Ser Ser Ala Ala Ser Glu Glu Glu Glu Lys Glu Ser Glu
 195 200 205

Glu Ala Ile Leu Ala Asp Asp Asp Glu Pro Cys Lys Lys Cys Gly Leu
 210 215 220

Pro Asn His Pro Glu Leu Ile Leu Leu Cys Asp Ser Cys Asp Ser Gly
 225 230 235 240

Tyr His Thr Ala Cys Leu Arg Pro Pro Leu Met Ile Ile Pro Asp Gly
 245 250 255

Glu Trp Phe Cys Pro Pro Cys Gln His Lys Leu Leu Cys Glu Lys Leu
 260 265 270
 Glu Glu Gln Leu Gln Asp Leu Asp Val Ala Leu Lys Lys Lys Glu Arg
 275 280 285
 Ala Glu Arg Arg Lys Glu Arg Leu Val Tyr Val Gly Ile Ser Ile Glu
 290 295 300
 Asn Ile Ile Pro Pro Gln Glu Pro Asp Phe Ser Glu Asp Gln Glu Glu
 305 310 315 320
 Lys Lys Lys Asp Ser Lys Lys Ser Lys Ala Asn Leu Leu Glu Arg Arg
 325 330 335
 Ser Thr Arg Thr Arg Lys Cys Ile Ser Tyr Arg Phe Asp Glu Phe Asp
 340 345 350
 Glu Ala Ile Asp Glu Ala Ile Glu Asp Asp Ile Lys Glu Ala Asp Gly
 355 360 365
 Gly Gly Val Gly Arg Gly Lys Asp Ile Ser Thr Ile Thr Gly His Arg
 370 375 380
 Gly Lys Asp Ile Ser Thr Ile Leu Asp Glu Lys Ile Ile Thr
 385 390 395

<210> 281
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 281
 Ser Ser Glu Lys Ser Gly Ser Cys Gly Gly Met Met Phe Ser Ile Leu
 1 5 10 15
 Ile Pro Thr Tyr Thr Lys Arg Ser Phe Leu Arg Ser Ala Arg Ser Phe
 20 25 30
 Phe Phe Lys Ala Thr Ser Lys Ser Cys Asn Cys Ser Ser Asn Phe Ser
 35 40 45
 Gln Ser Ser Leu Cys Trp Gln Gly Gly Gln Asn His Ser Pro Ser Gly
 50 55 60
 Met Ile Ile Arg Gly Gly Arg Arg Gln Ala Val Trp Tyr Pro Leu Ser
 65 70 75 80
 Gln Glu Ser His Arg Arg Ile Ser Ser Gly Trp Phe Gly Arg Pro His
 85 90 95
 Phe Leu His Gly Ser Ser Ser Ser Ala Arg Met Ala Ser Ser Leu Ser
 100 105 110
 Phe Ser Ser Ser Ser Ser Glu Ala Ala Asp Asp Phe Ser Leu Pro Asp
 115 120 125

Pro Ser Leu Ser Ser Leu Leu Glu Tyr Phe His Leu Pro Arg Val Arg
 130 135 140

Glu Pro Val His Arg Thr Leu Pro Leu Gly Phe Thr Leu Leu Thr Leu
 145 150 155 160

Glu Phe Val Ser Phe Ser Asp Phe Phe Lys Ile Ser Phe Leu Ser Val
 165 170 175

Phe Cys Lys Ala Val Asp Ser Ser Ser Thr Ser Ser Ser Pro Ser Pro
 180 185 190

Leu Phe Leu Ser Ala Phe
 195

<210> 282
 <211> 202
 <212> PRT
 <213> Homo sapiens

<400> 282
 Gly Arg Leu Pro Phe Ser Gly Arg Gly Arg Gly Lys Lys Val Thr Ser
 1 5 10 15

Gly Asp Gly Val Ala Ser Leu Pro Leu Lys Leu Gly Arg Leu Phe Gly
 20 25 30

Gly Val Thr Arg Gly Phe Asn Met Arg Ile Glu Lys Cys Tyr Phe Cys
 35 40 45

Ser Gly Pro Ile Tyr Pro Gly His Gly Met Met Phe Val Arg Asn Asp
 50 55 60

Cys Lys Val Phe Arg Phe Cys Lys Ser Lys Cys His Lys Asn Phe Lys
 65 70 75 80

Lys Lys Arg Asn Pro Arg Lys Val Arg Trp Thr Lys Ala Phe Arg Lys
 85 90 95

Ala Ala Gly Lys Glu Leu Thr Val Asp Asn Ser Phe Glu Phe Glu Lys
 100 105 110

Arg Arg Asn Glu Pro Ile Lys Tyr Gln Arg Glu Leu Trp Asn Lys Thr
 115 120 125

Ile Asp Ala Met Lys Arg Val Glu Glu Ile Lys Gln Lys Arg Gln Ala
 130 135 140

Lys Phe Ile Met Asn Arg Leu Lys Lys Asn Lys Glu Leu Gln Lys Val
 145 150 155 160

Gln Asp Ile Lys Glu Val Lys Gln Asn Ile His Leu Ile Arg Ala Pro
 165 170 175

Leu Ala Gly Lys Gly Lys Gln Leu Glu Glu Lys Met Val Gln Gln Leu
 180 185 190

Gln Glu Asp Val Asp Met Glu Asp Ala Pro
 195 200

<210> 283
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 283
 Ile Ile His Cys Lys Leu Phe Thr Ser Cys Phe Pro Glu Cys Phe Gly
 1 5 10 15
 Pro Pro Asn Phe Ala Arg Ile Ala Leu Leu Phe Lys Val Phe Met Thr
 20 25 30
 Phe Arg Phe Ala Lys Ser Glu His Leu Ala Ile Val Ala Asp Glu His
 35 40 45
 His Ala Val Ser Arg Ile Asp Gly Pro Arg Thr Glu Ile Thr Leu Phe
 50 55 60
 Asp Thr His Val Glu Pro Ala Cys Asn Pro Thr Lys Gln Thr Pro Lys
 65 70 75 80
 Leu Glu Arg Lys

<210> 284
 <211> 206
 <212> PRT
 <213> Homo sapiens

<400> 284
 Arg Leu Glu Pro Arg Ser Val Thr Arg Ser Arg Arg Ala Val Ser Arg
 1 5 10 15
 Leu Ser Ala Arg Pro Gly Lys Val Ser Ala Val Met Ala Phe Leu Ala
 20 25 30
 Ser Gly Pro Tyr Leu Thr His Gln Gln Lys Val Leu Arg Leu Tyr Lys
 35 40 45
 Arg Ala Leu Arg His Leu Glu Ser Trp Cys Val Gln Arg Asp Lys Tyr
 50 55 60
 Arg Tyr Phe Ala Cys Leu Met Arg Ala Arg Phe Glu Glu His Lys Asn
 65 70 75 80
 Glu Lys Asp Met Ala Lys Ala Thr Gln Leu Leu Lys Glu Ala Glu Glu
 85 90 95
 Glu Phe Trp Tyr Arg Gln His Pro Gln Pro Tyr Ile Phe Pro Asp Ser
 100 105 110
 Pro Gly Gly Thr Ser Tyr Glu Arg Tyr Asp Cys Tyr Lys Val Pro Glu
 115 120 125

Trp Cys Leu Asp Asp Trp His Pro Ser Glu Lys Ala Met Tyr Pro Asp
 130 135 140

Tyr Phe Ala Lys Arg Glu Gln Trp Lys Lys Leu Arg Arg Glu Ser Trp
 145 150 155 160

Glu Arg Glu Val Lys Gln Leu Gln Glu Glu Thr Pro Pro Gly Gly Pro
 165 170 175

Leu Thr Glu Ala Leu Pro Pro Ala Arg Lys Glu Gly Asp Leu Pro Pro
 180 185 190

Leu Trp Trp Tyr Ile Val Thr Arg Pro Arg Glu Arg Pro Met
 195 200 205

<210> 285

<211> 139

<212> PRT

<213> Homo sapiens

<400> 285

Pro Leu Val Pro Ser Phe Pro Ser Ala Val Ser Ser Thr Val Leu Ser
 1 5 10 15

Trp Gln Ser Asn Gln Asp Thr Leu Pro Ser Gln Lys Asp Ala Ser His
 20 25 30

Leu Ser Thr Ile Leu Gly Pro Cys Ser Asn Arg Ile Ser His Arg Arg
 35 40 45

Cys Pro Gln Glu Ser Gln Gly Arg Cys Met Ala Val Asp Ala Asp Gly
 50 55 60

Thr Arg Ile Leu Pro Arg Pro Pro Ser Ala Ala Gly Trp Pro Ser Pro
 65 70 75 80

Tyr Pro Phe His Ser Tyr Val Leu Gln Thr Gly Leu Ser Ser Asn Lys
 85 90 95

Gln Ser Ile Gly Ile Cys Leu Ser Gly Arg Thr Thr Thr Arg Gly Gly
 100 105 110

Val Ala Pro Ala Tyr Lys Ala Ala Thr Pro Phe Ala Asp Gly Ser Gly
 115 120 125

Arg Val Pro Thr Pro Arg Thr Pro Leu Arg Arg
 130 135

<210> 286

<211> 80

<212> PRT

<213> Homo sapiens

<400> 286

Leu Met Met Thr Ile Tyr Ala Leu Ser Asn Glu Phe Ala Phe Lys Ile

1	5	10	15
Asn Glu Glu Gln Leu Ser Phe Phe Pro Leu Leu Ser Val Gln Leu Trp	20	25	30
His Ala Gln Arg Phe Leu Leu Asp Ser Ser Trp Ser Gly Val Ile Pro	35	40	45
Phe Phe Phe Ser Cys Ser Cys Leu Pro Phe Leu Tyr Pro Pro Arg Trp	50	55	60
Arg Gln Ile His Asp Leu Lys Asp Thr Gln Tyr Leu Leu Asn Ser Ser	65	70	75
			80

<210> 287

<211> 80

<212> PRT

<213> Homo sapiens

<400> 287

Leu Met Met Thr Ile Tyr Ala Leu Ser Asn Glu Phe Ala Phe Lys Ile	1	5	10	15
Asn Glu Glu Gln Leu Ser Phe Phe Pro Leu Leu Ser Val Gln Leu Trp	20	25	30	
His Ala Gln Arg Phe Leu Leu Asp Ser Ser Trp Ser Gly Val Ile Pro	35	40	45	
Phe Phe Phe Ser Cys Ser Cys Leu Pro Phe Leu Tyr Pro Pro Lys Trp	50	55	60	
Arg Gln Ile His Asp Leu Lys Asp Thr Gln Tyr Leu Leu Asn Ser Ser	65	70	75	80

<210> 288

<211> 206

<212> PRT

<213> Homo sapiens

<400> 288

Arg Leu Ser Cys Ala Gly Thr Leu Ser Gly Ser Gly Pro His Pro Ser	1	5	10	15
Arg Arg Leu Thr Gln Gly Arg Trp Val Arg Lys Ser Arg Val Ala Met	20	25	30	
Glu Lys Ile Pro Val Ser Ala Phe Leu Leu Leu Val Ala Leu Ser Tyr	35	40	45	
Thr Leu Ala Arg Asp Thr Thr Val Lys Pro Gly Ala Lys Lys Asp Thr	50	55	60	
Lys Asp Ser Arg Pro Lys Leu Pro Gln Thr Leu Ser Arg Gly Trp Gly	65	70	75	80

Asp Gln Leu Ile Trp Thr Gln Thr Tyr Glu Glu Ala Leu Tyr Lys Ser
85 90 95

Lys Thr Ser Asn Lys Pro Leu Met Ile Ile His His Leu Asp Glu Cys
100 105 110

Pro His Ser Gln Ala Leu Lys Lys Val Phe Ala Glu Asn Lys Glu Ile
115 120 125

Gln Lys Leu Ala Glu Gln Phe Val Leu Leu Asn Leu Val Tyr Glu Thr
130 135 140

Thr	Asp	Lys	His	Leu	Ser	Pro	Asp	Gly	Gln	Tyr	Val	Pro	Arg	Ile	Met
145					150					155					160

Phe Val Asp Pro Ser Leu Thr Val Arg Ala Asp Ile Thr Gly Arg Tyr
165 170 175

Ser Asn Arg Leu Tyr Ala Tyr Glu Pro Ala Asp Thr Ala Leu Leu Leu
180 185 190

Asp Asn Met Lys Lys Ala Leu Lys Leu Leu Lys Thr Glu Leu
195 200 205

<210> 289

<211> 77

<212> PRT

<213> Homo sapiens

<400> 289

Gly Asn Pro Glu Leu Pro Trp Arg Lys Phe Gln Cys Gln His Ser Cys
1 5 10 15

Ser Leu Trp Pro Ser Pro Thr Leu Trp Pro Glu Ile Pro Gln Ser Asn
20 25 30

Leu Glu Pro Lys Arg Thr Gln Arg Thr Leu Asp Pro Asn Cys Pro Arg
35 40 45

Pro Ser Pro Glu Val Gly Val Thr Asn Ser Ser Gly Leu Arg His Met
50 55 60

Lys Lys Leu Tyr Ile Asn Pro Arg Gln Ala Thr Asn Pro
65 70 75

<210> 290

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> MOD RES

<222> (3)

<223> Variable amino acid

<220>

<221> MOD_RES
<222> (5)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (9)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (11)
<223> Variable amino acid

<220>
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<222> (13)
<223> Variable amino acid

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<222> (16)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (22)..(23)
<223> Variable amino acid

<220>
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<222> (29)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (32)
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<220>
<221> MOD_RES
<222> (46)..(47)
<223> Variable amino acid

<220>
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<223> Variable amino acid

<220>
<221> MOD_RES
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<220>
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<222> (73)
<223> Variable amino acid

<220>
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<223> Variable amino acid

<220>
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<222> (78)
<223> Variable amino acid

<220>
<221> MOD_RES
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<223> Variable amino acid

<220>
<221> MOD_RES
<222> (96)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (99)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (103)..(104)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (108)..(109)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (111)..(112)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (115)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (119)
<223> Variable amino acid

<220>
<221> MOD_RES
<222> (122)
<223> Variable amino acid

<220>
<221> MOD_RES

<222> (152)

<223> Variable amino acid

<400> 290

Gly	Gly	Xaa	Gly	Xaa	Gln	Leu	Leu	Xaa	Pro	Xaa	Ala	Xaa	Gln	Gly	Xaa	1	5	10	15
Pro	Ala	Ala	Ser	Cys	Xaa	Xaa	Gln	Asp	Val	His	Leu	Xaa	Arg	Cys	Xaa	20	25	30	
Thr	Val	Val	Arg	Trp	Tyr	Gln	Arg	Ile	Thr	Gly	Met	Pro	Xaa	Xaa	Ala	35	40	45	
Pro	Thr	Arg	Asn	Phe	Ser	Lys	Phe	Gln	Arg	Xaa	Val	Met	Asp	Leu	His	50	55	60	
Gly	Phe	Pro	Lys	Glu	Xaa	Gly	Gln	Xaa	Glu	Xaa	Gln	Glu	Xaa	Leu	Gln	65	70	75	80
Trp	Glu	Gly	Arg	Ser	Ser	Ser	Gly	Lys	Cys	Arg	Ile	Ser	Xaa	Ser	Xaa	85	90	95	
Leu	Pro	Xaa	Ser	Thr	Ile	Xaa	Xaa	Phe	Leu	Lys	Xaa	Xaa	Trp	Xaa	Xaa	100	105	110	
Ile	Arg	Xaa	Gln	Ser	Pro	Xaa	Thr	Trp	Xaa	Arg	Thr	Tyr	Leu	Arg	Leu	115	120	125	
Gly	Ser	Ile	Ser	Glu	Phe	Ser	Pro	Gly	Ser	Cys	Leu	Pro	Asn	Trp	Leu	130	135	140	
Glu	Gly	Lys	Pro	Arg	Met	Thr	Xaa	Ala	Lys	Trp	Pro	Lys	Phe	Phe	Leu	145	150	155	160

<210> 291

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> MOD_RES

<222> (3)

<223> Variable amino acid

<220>

<221> MOD_RES

<222> (6)

<223> Variable amino acid

<220>

<221> MOD_RES

<222> (9)

<223> Variable amino acid

<220>

<221> MOD_RES

<222> (23)

<223> Variable amino acid

<220>

<221> MOD_RES

<222> (28)

<223> Variable amino acid

<220>

<221> MOD_RES

<222> (33)..(35)

<223> Variable amino acid

<220>

<221> MOD_RES

<222> (38)

<223> Variable amino acid

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<220>
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 <223> Variable amino acid

<400> 291

Arg His Xaa Pro Leu Xaa Leu Gly Xaa His Gly His Arg Ala His Ser
 1 5 10 15

Cys Leu Gly Trp Ser Gln Xaa Ala Leu Trp Asp Xaa Ala Trp Gly Leu
 20 25 30

Xaa Xaa Xaa Gly Ser Xaa Gln Xaa Arg Lys Lys Glu Ala Xaa Trp Cys
 35 40 45

Val Xaa Val Gly Xaa Val Gly Xaa Cys Xaa Xaa Pro Xaa Glu Xaa Met
 50 55 60

Xaa Xaa Gly Phe Glu Gln Asn Xaa Xaa Gly Pro Xaa Asn Xaa Xaa Val
 65 70 75 80

Ser Xaa Leu Gly Xaa Xaa Xaa Trp Asn Arg Xaa Ala Glu Lys Asn Met
 85 90 95

Xaa Gly Cys Cys Ala Lys Xaa Val Asn Xaa Xaa Met Asp His Xaa Xaa
 100 105 110

Gly Phe Gln Xaa Arg Gln Ile Arg Gly Leu Cys Ser His Ala His Thr
 115 120 125

Gly Xaa Asn Cys His Val Ser Xaa Ser Gly Ser Asp Thr Gln Leu Cys
 130 135 140

Xaa Gly Leu Ser Phe Met
 145 150

<210> 292
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 292

Arg Ala Ala Lys Ile Leu Lys Gly Gly Leu Gln Glu Val Ala Glu Gln
 1 5 10 15

Leu Glu Leu Glu Arg Ile Gly Pro Gln His Gln Ala Gly Ser Asp Ser

20					25					30					
Leu	Leu	Thr	Gly	Met	Ala	Phe	Phe	Lys	Met	Arg	Glu	Met	Phe	Phe	Glu
			35					40					45		
Asp	His	Ile	Asp	Asp	Ala	Lys	Tyr	Cys	Gly	His	Leu	Tyr	Gly	Leu	Gly
		50					55					60			
Ser	Gly	Ser	Ser	Tyr	Val	Gln	Asn	Gly	Thr	Gly	Asn	Ala	Tyr	Glu	Glu
		65					70					75			80
Glu	Ala	Asn	Lys	Gln	Ser										
					85										

<210> 293
 <211> 64
 <212> PRT
 <213> Homo sapiens

20					25					30					
Ile	Lys	Ala	Lys	Phe	Asn	Leu	Asn	Ala	Phe	Phe	Phe	Phe	Phe	Leu	Leu
	1			5					10					15	
Arg	Ser	Glu	Ile	Gly	Thr	Val	Ile	Leu	Ser	Thr	Glu	Arg	Gln	Thr	Ile
			20					25					30		
Lys	Trp	Ala	Met	Lys	Gly	Gly	Gly	Lys	Val	Leu	Ser	Ile	Val	Arg	Gly
		35					40					45			
Ile	Gln	Pro	Glu	Ile	Lys	Pro	Ile	Tyr	Lys	His	Val	Cys	Ser	Ser	Lys
		50					55					60			

<210> 294
 <211> 226
 <212> PRT
 <213> Homo sapiens

20					25					30					
Ala	Ser	Thr	Ile	Met	Asp	Leu	Leu	Phe	Gly	Arg	Arg	Lys	Thr	Pro	Glu
	1			5					10					15	
Glu	Leu	Leu	Arg	Gln	Asn	Gln	Arg	Ala	Leu	Asn	Arg	Ala	Met	Arg	Glu
			20					25					30		
Leu	Asp	Arg	Glu	Arg	Gln	Lys	Leu	Glu	Thr	Gln	Glu	Lys	Lys	Ile	Ile
		35					40					45			
Ala	Asp	Ile	Lys	Lys	Met	Ala	Lys	Gln	Gly	Gln	Met	Asp	Ala	Val	Arg
		50					55					60			
Ile	Met	Ala	Lys	Asp	Leu	Val	Arg	Thr	Arg	Arg	Tyr	Val	Arg	Lys	Phe
		65					70					75			80
Val	Leu	Met	Arg	Ala	Asn	Ile	Gln	Ala	Val	Ser	Leu	Lys	Ile	Gln	Thr
				85				90						95	

Leu Lys Ser Asn Asn Ser Met Ala Gln Ala Met Lys Gly Val Thr Lys
 100 105 110
 Ala Met Gly Thr Met Asn Arg Gln Leu Lys Leu Pro Gln Ile Gln Lys
 115 120 125
 Ile Met Met Glu Phe Glu Arg Gln Ala Glu Ile Met Asp Met Lys Glu
 130 135 140
 Glu Met Met Asn Asp Ala Ile Asp Asp Pro Met Gly Asp Glu Glu Asp
 145 150 155 160
 Glu Glu Glu Ser Asp Ala Val Val Ser Gln Val Leu Asp Glu Leu Gly
 165 170 175
 Leu Ser Leu Thr Asp Glu Leu Ser Asn Leu Pro Ser Thr Gly Gly Ser
 180 185 190
 Leu Ser Val Ala Ala Gly Gly Lys Lys Ala Glu Ala Ala Ala Ser Ala
 195 200 205
 Leu Ala Asp Ala Asp Ala Asp Leu Glu Glu Arg Leu Lys Asn Leu Arg
 210 215 220
 Arg Asp
 225

<210> 295

<211> 166

<212> PRT

<213> Homo sapiens

<400> 295

Lys Ile Leu Gly Ile His Trp Leu Ser Arg Ser Gly Arg Gly Thr Gln
 1 5 10 15
 Ser Leu Arg Arg Phe Leu Ser Arg Ser Ser Arg Ser Ala Ser Ala Ser
 20 25 30
 Ala Arg Ala Glu Ala Ala Ala Ser Ala Phe Phe Pro Pro Ala Ala Thr
 35 40 45
 Leu Ser Glu Pro Pro Val Glu Gly Arg Phe Asp Ser Ser Ser Val Arg
 50 55 60
 Leu Ser Pro Ser Ser Ser Arg Thr Trp Asp Thr Thr Ala Ser Leu Ser
 65 70 75 80
 Ser Ser Ser Ser Ser Ser Pro Met Gly Ser Ser Met Ala Ser Phe Ile
 85 90 95
 Ile Ser Ser Phe Ile Ser Met Ile Ser Ala Cys Arg Ser Asn Ser Ile
 100 105 110
 Met Ile Phe Trp Ile Trp Gly Asn Phe Ser Cys Leu Phe Met Val Pro
 115 120 125

Met Ala Leu Val Thr Pro Phe Met Ala Cys Ala Ile Glu Leu Leu Asp
 130 135 140

Leu Ser Val Trp Ile Leu Arg Asp Thr Ala Trp Met Leu Ala Arg Ile
 145 150 155 160

Asn Thr Asn Leu Arg Thr
 165

<210> 296

<211> 233

<212> PRT

<213> Homo sapiens

<400> 296

Lys Pro Glu Gly Ala Arg Arg Val Gln Phe Val Met Gly Leu Phe Gly
 1 5 10 15

Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu
 20 25 30

Lys Ile Arg Lys Glu Met Arg Val Val Asp Arg Gln Ile Arg Asp Ile
 35 40 45

Gln Arg Glu Glu Glu Lys Val Lys Arg Ser Val Lys Asp Ala Ala Lys
 50 55 60

Lys Gly Gln Lys Asp Val Cys Ile Val Leu Ala Lys Glu Met Ile Arg
 65 70 75 80

Ser Arg Lys Ala Val Ser Lys Leu Tyr Ala Ser Lys Ala His Met Asn
 85 90 95

Ser Val Leu Met Gly Met Lys Asn Gln Leu Ala Val Leu Arg Val Ala
 100 105 110

Gly Ser Leu Gln Lys Ser Thr Glu Val Met Lys Ala Met Gln Ser Leu
 115 120 125

Val Lys Ile Pro Glu Ile Gln Ala Thr Met Arg Glu Leu Ser Lys Glu
 130 135 140

Met Met Lys Ala Gly Ile Ile Glu Glu Met Leu Glu Asp Thr Phe Glu
 145 150 155 160

Ser Met Asp Asp Gln Glu Glu Met Glu Glu Glu Ala Glu Met Glu Ile
 165 170 175

Asp Arg Ile Leu Phe Glu Ile Thr Ala Gly Ala Leu Gly Lys Ala Pro
 180 185 190

Ser Lys Val Thr Asp Ala Leu Pro Glu Pro Glu Pro Pro Gly Ala Met
 195 200 205

Ala Ala Ser Glu Asp Glu Gly Glu Glu Glu Glu Ala Leu Glu Ala Met
 210 215 220

Gln Ser Arg Leu Ala Thr Leu Arg Ser
225 230

<210> 297
<211> 129
<212> PRT
<213> Homo sapiens

<400> 297
Leu Met Pro Phe Gln Ser Gln Asn Leu Gln Glu Arg Trp Leu Pro Gln
1 5 10 15
Arg Met Arg Gly Arg Arg Lys Arg Leu Trp Arg Pro Cys Ser Pro Gly
20 25 30
Trp Pro His Ser Ala Ala Arg Gly Cys Leu Pro Arg Trp Val Cys Thr
35 40 45
His Ser Ser Gln Glu Leu Pro Phe Tyr Val Ser Leu Ala Leu His Leu
50 55 60
Cys Cys Glu Asp Tyr His Phe Gly Glu Gly Ser Val Cys Leu Phe Ser
65 70 75 80
Phe Ser Ala Gln Val Leu Gly Ser Gln Arg Asp Cys Ser Tyr Lys Ser
85 90 95
Gly Ile Asn Lys Cys Ile Ile Phe Arg Ser Ile Asp Arg Tyr Ile Leu
100 105 110
Leu Trp Gly Gly Glu Arg Asn Pro Ser Ala His Glu Ala Leu Leu Lys
115 120 125
Ile

<210> 298
<211> 351
<212> PRT
<213> Homo sapiens

<400> 298
Thr Trp Cys Thr Thr Thr Met Leu Ala Ala Arg Leu Val Cys Leu Arg
1 5 10 15
Thr Leu Pro Ser Arg Val Phe His Pro Ala Phe Thr Lys Ala Ser Pro
20 25 30
Val Val Lys Asn Ser Ile Thr Lys Asn Gln Trp Leu Leu Thr Pro Ser
35 40 45
Arg Glu Tyr Ala Thr Lys Thr Arg Ile Gly Ile Arg Arg Gly Arg Thr
50 55 60
Gly Gln Glu Leu Lys Glu Ala Ala Leu Glu Pro Ser Met Glu Lys Ile
65 70 75 80

Phe	Lys	Ile	Asp	Gln	Met	Gly	Arg	Trp	Phe	Val	Ala	Gly	Gly	Ala	Ala	
				85					90					95		
Val	Gly	Leu	Gly	Ala	Leu	Cys	Tyr	Tyr	Gly	Leu	Gly	Leu	Ser	Asn	Glu	
				100					105					110		
Ile	Gly	Ala	Ile	Glu	Lys	Ala	Val	Ile	Trp	Pro	Gln	Tyr	Val	Lys	Asp	
				115					120					125		
Arg	Ile	His	Ser	Thr	Tyr	Met	Tyr	Leu	Ala	Gly	Ser	Ile	Gly	Leu	Thr	
				130					135					140		
Ala	Leu	Ser	Ala	Ile	Ala	Ile	Ser	Arg	Thr	Pro	Val	Leu	Met	Asn	Phe	
				145					150					155		
Met	Met	Arg	Gly	Ser	Trp	Val	Thr	Ile	Gly	Val	Thr	Phe	Ala	Ala	Met	
				165					170					175		
Val	Gly	Ala	Gly	Met	Leu	Val	Arg	Ser	Ile	Pro	Tyr	Asp	Gln	Ser	Pro	
				180					185					190		
Gly	Pro	Lys	His	Leu	Ala	Trp	Leu	Leu	His	Ser	Gly	Val	Met	Gly	Ala	
				195					200					205		
Val	Val	Ala	Pro	Leu	Thr	Ile	Leu	Gly	Gly	Pro	Leu	Leu	Ile	Arg	Ala	
				210					215					220		
Ala	Trp	Tyr	Thr	Ala	Gly	Ile	Val	Gly	Gly	Leu	Ser	Thr	Val	Ala	Met	
				225					230					235		
Cys	Ala	Pro	Ser	Glu	Lys	Phe	Leu	Asn	Met	Gly	Ala	Pro	Leu	Gly	Val	
				245					250					255		
Gly	Leu	Gly	Leu	Val	Phe	Val	Ser	Ser	Leu	Gly	Ser	Met	Phe	Leu	Pro	
				260					265					270		
Pro	Thr	Thr	Val	Ala	Gly	Ala	Thr	Leu	Tyr	Ser	Val	Ala	Met	Tyr	Gly	
				275					280					285		
Gly	Leu	Val	Leu	Phe	Ser	Met	Phe	Leu	Leu	Tyr	Asp	Thr	Gln	Lys	Val	
				290					295					300		
Ile	Lys	Arg	Ala	Glu	Val	Ser	Pro	Met	Tyr	Gly	Val	Gln	Lys	Tyr	Asp	
				305					310					315		
Pro	Ile	Asn	Ser	Met	Leu	Ser	Ile	Tyr	Met	Asp	Thr	Leu	Asn	Ile	Phe	
				325					330					335		
Met	Arg	Val	Ala	Thr	Met	Leu	Ala	Thr	Gly	Gly	Asn	Arg	Lys	Lys		
				340					345					350		

<210> 299

<211> 147

<212> PRT

<213> Homo sapiens

<400> 299

Arg Val Ala Pro Ala Thr Val Val Gly Gly Arg Asn Ile Asp Pro Asn
 1 5 10 15
 Glu Asp Thr Lys Thr Arg Pro Arg Pro Thr Pro Arg Gly Ala Pro Met
 20 25 30
 Phe Arg Asn Phe Ser Leu Gly Ala His Met Ala Thr Val Glu Arg Pro
 35 40 45
 Pro Thr Met Pro Ala Val Tyr His Ala Ala Leu Met Arg Arg Gly Pro
 50 55 60
 Pro Asn Ile Val Arg Gly Ala Thr Thr Ala Pro Ile Thr Pro Glu Cys
 65 70 75 80
 Ser Asn Gln Ala Arg Cys Phe Gly Pro Gly Leu Trp Ser Tyr Gly Ile
 85 90 95
 Asp Arg Thr Ser Ile Pro Ala Pro Thr Met Ala Ala Lys Val Thr Pro
 100 105 110
 Ile Val Thr Gln Glu Pro Leu Ile Met Lys Phe Met Arg Thr Gly Val
 115 120 125
 Leu Leu Ile Ala Met Ala Asp Lys Ala Val Lys Pro Ile Leu Pro Ala
 130 135 140
 Lys Tyr Ile
 145

<210> 300
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 300
 Arg Arg Leu Glu Val Ser Tyr Arg Gln His His Phe Arg Val Ser Leu
 1 5 10 15
 Ala Pro Trp Ser Lys Met Ala Asp Glu Ala Thr Arg Arg Val Val Ser
 20 25 30
 Glu Ile Pro Val Leu Lys Thr Asn Ala Gly Pro Arg Asp Arg Glu Leu
 35 40 45
 Trp Val Gln Arg Leu Lys Glu Glu Tyr Gln Ser Leu Ile Arg Tyr Val
 50 55 60
 Glu Asn Asn Lys Asn Ala Asp Asn Asp Trp Phe Arg Leu Glu Ser Asn
 65 70 75 80
 Lys Glu Gly Thr Arg Trp Phe Gly Lys Cys Trp Tyr Ile His Asp Leu
 85 90 95
 Leu Lys Tyr Glu Phe Asp Ile Glu Phe Asp Ile Pro Ile Thr Tyr Pro
 100 105 110

Thr Thr Ala Pro Glu Ile Ala Val Pro Glu Leu Asp Gly Lys Thr Ala
 115 120 125

Lys Met Tyr Arg Gly Gly Lys Ile Cys Leu Thr Asp His Phe Lys Pro
 130 135 140

Leu Trp Ala Arg Asn Val Pro Lys Phe Gly Leu Ala His Leu Met Ala
 145 150 155 160

Leu Gly Leu Gly Pro Trp Leu Ala Val Glu Ile Pro Asp Leu Ile Gln
 165 170 175

Lys Gly Val Ile Gln His Lys Glu Lys Cys Asn Gln
 180 185

<210> 301

<211> 172

<212> PRT

<213> Homo sapiens

<400> 301

Ser Lys Phe Gly His Ile Pro Gly Pro Gln Arg Phe Glu Met Ile Arg
 1 5 10 15

Gln Ala Tyr Phe Ala Thr Pro Val His Leu Cys Cys Leu Ser Ile Gln
 20 25 30

Leu Arg Asn Cys Asn Phe Trp Gly Ser Ser Arg Ile Cys Asp Arg Asn
 35 40 45

Val Lys Leu Asp Val Lys Leu Ile Phe Gln Glu Val Met Asp Ile Pro
 50 55 60

Ala Phe Ser Lys Pro Pro Ser Ser Phe Leu Val Gly Leu Gln Ser Glu
 65 70 75 80

Pro Ile Val Val Ser Ile Leu Val Val Leu His Ile Pro Asp Lys Gly
 85 90 95

Leu Ile Phe Leu Leu Gln Ser Leu His Pro Gln Leu Thr Ile Ser Gly
 100 105 110

Ser Gly Val Ser Leu Gln His Arg Asp Leu Arg His Asn Thr Ser Arg
 115 120 125

Gly Phe Ile Arg His Leu Gly Pro Gly Arg Lys Arg Asn Ala Glu Val
 130 135 140

Val Leu Pro Val Ala Tyr Leu Lys Ala Pro Ser Ser Leu Leu Trp Glu
 145 150 155 160

Asp Glu Thr Leu Gly Cys Cys Lys Thr Ser Phe Glu
 165 170

<210> 302

<211> 320

<212> PRT

<213> Homo sapiens

<400> 302

Ala	Val	Arg	Arg	Arg	Gly	Ala	Leu	Ser	Leu	Ser	Val	Gly	Ala	Ala	Cys
1				5					10					15	
Gly	Leu	Val	Ala	Leu	Trp	Gln	Arg	Arg	Arg	Gln	Asp	Ser	Gly	Thr	Met
			20					25					30		
Ser	Gly	Phe	Ser	Thr	Glu	Glu	Arg	Ala	Ala	Pro	Phe	Ser	Leu	Glu	Tyr
		35					40					45			
Arg	Val	Phe	Leu	Lys	Asn	Glu	Lys	Gly	Gln	Tyr	Ile	Ser	Pro	Phe	His
	50					55					60				
Asp	Ile	Pro	Ile	Tyr	Ala	Asp	Lys	Asp	Val	Phe	His	Met	Val	Val	Glu
65					70					75					80
Val	Pro	Arg	Trp	Ser	Asn	Ala	Lys	Met	Glu	Ile	Ala	Thr	Lys	Asp	Pro
				85					90					95	
Leu	Asn	Pro	Ile	Lys	Gln	Asp	Val	Lys	Lys	Gly	Lys	Leu	Arg	Tyr	Val
			100					105					110		
Ala	Asn	Leu	Phe	Pro	Tyr	Lys	Gly	Tyr	Ile	Trp	Asn	Tyr	Gly	Ala	Ile
		115					120					125			
Pro	Gln	Thr	Trp	Glu	Asp	Pro	Gly	His	Asn	Asp	Lys	His	Thr	Gly	Cys
	130					135					140				
Cys	Gly	Asp	Asn	Asp	Pro	Ile	Asp	Val	Cys	Glu	Ile	Gly	Ser	Lys	Val
145					150					155					160
Cys	Ala	Arg	Gly	Glu	Ile	Ile	Gly	Val	Lys	Val	Leu	Gly	Ile	Leu	Ala
				165					170					175	
Met	Ile	Asp	Glu	Gly	Glu	Thr	Asp	Trp	Lys	Val	Ile	Ala	Ile	Asn	Val
			180					185					190		
Asp	Asp	Pro	Asp	Ala	Ala	Asn	Tyr	Asn	Asp	Ile	Asn	Asp	Val	Lys	Arg
		195					200					205			
Leu	Lys	Pro	Gly	Tyr	Leu	Glu	Ala	Thr	Val	Asp	Trp	Phe	Arg	Arg	Tyr
	210					215					220				
Lys	Val	Pro	Asp	Gly	Lys	Pro	Glu	Asn	Glu	Phe	Ala	Phe	Asn	Ala	Glu
225					230					235					240
Phe	Lys	Asp	Lys	Asp	Phe	Ala	Ile	Asp	Ile	Ile	Lys	Ser	Thr	His	Asp
				245					250					255	
His	Trp	Lys	Ala	Leu	Val	Thr	Lys	Lys	Thr	Asn	Gly	Lys	Gly	Ile	Ser
			260					265					270		
Cys	Met	Asn	Thr	Thr	Leu	Ser	Glu	Ser	Pro	Phe	Lys	Cys	Asp	Pro	Asp
		275					280					285			

Ala Ala Arg Ala Ile Val Asp Ala Leu Pro Pro Pro Cys Glu Ser Ala
 290 295 300

Cys Thr Val Pro Thr Asp Val Asp Lys Trp Phe His His Gln Lys Asn
 305 310 315 320

<210> 303

<211> 85

<212> PRT

<213> Homo sapiens

<400> 303

Arg Val Leu Cys Ser Asn Leu His Phe Cys Ile Arg Pro Ala Trp Tyr
 1 5 10 15

Phe Asn Tyr His Val Lys His Ile Leu Ile Cys Ile Asn Trp Asn Ile
 20 25 30

Met Lys Trp Arg Tyr Ile Leu Ser Phe Leu Ile Phe Glu Glu Asp Ser
 35 40 45

Val Leu Gln Gly Glu Gly Arg Gly Ala Leu Leu Gly Ala Glu Ala Ala
 50 55 60

His Ser Ala Gly Val Leu Pro Pro Pro Leu Pro Gln Ser His Gln Pro
 65 70 75 80

Ala Arg Gly Ala Asp
 85

<210> 304

<211> 247

<212> PRT

<213> Homo sapiens

<400> 304

Gly Ser Ser Gly Ser Arg Phe Glu Val Val Val Val Leu Glu Glu Arg
 1 5 10 15

Arg Gly Gly Arg Gly Arg Gly Met Gly Arg Gly Asp Gly Phe Asp Ser
 20 25 30

Arg Gly Lys Arg Glu Phe Asp Arg His Ser Gly Ser Asp Arg Ser Gly
 35 40 45

Leu Lys His Glu Asp Lys Arg Gly Gly Ser Gly Ser His Asn Trp Gly
 50 55 60

Thr Val Lys Asp Glu Leu Thr Glu Ser Pro Lys Tyr Ile Gln Lys Gln
 65 70 75 80

Ile Ser Tyr Asn Tyr Ser Asp Leu Asp Gln Ser Asn Val Thr Glu Glu
 85 90 95

Thr Pro Glu Gly Glu Glu His His Pro Val Ala Asp Thr Glu Asn Lys
 100 105 110

Glu Asn Glu Val Glu Glu Val Lys Glu Glu Gly Pro Lys Glu Met Thr
 115 120 125

Leu Asp Glu Trp Lys Ala Ile Gln Asn Lys Asp Arg Ala Lys Val Glu
 130 135 140

Phe Asn Ile Arg Lys Pro Asn Glu Gly Ala Asp Gly Gln Trp Lys Lys
 145 150 155 160

Gly Phe Val Leu His Lys Ser Lys Ser Glu Glu Ala His Ala Glu Asp
 165 170 175

Ser Val Met Asp His His Phe Arg Lys Pro Ala Asn Asp Ile Thr Ser
 180 185 190

Gln Leu Glu Ile Asn Phe Gly Asp Leu Gly Arg Pro Gly Arg Gly Gly
 195 200 205

Arg Gly Gly Arg Gly Gly Arg Gly Arg Gly Gly Arg Pro Asn Arg Gly
 210 215 220

Ser Arg Thr Asp Lys Ser Ser Ala Ser Ala Pro Asp Val Asp Asp Pro
 225 230 235 240

Glu Ala Phe Pro Ala Leu Ala
 245

<210> 305

<211> 78

<212> PRT

<213> Homo sapiens

<400> 305

Ser Phe Gly Ile Leu Lys His Ala Lys Ala Leu Asn Arg Arg Val His
 1 5 10 15

Lys Gly Thr Arg Val Val Leu Trp His Pro Val Lys Pro Glu Leu Gly
 20 25 30

Met Pro Leu Gly His Pro His Gln Glu Gln Lys His Leu Thr Cys Arg
 35 40 45

Ser Cys Cys His Gly Leu Gly Ala His His Ala His Val His Leu Val
 50 55 60

Leu Pro Cys Arg His Val Leu Gly Gly Gln Gly Leu Gln Asn
 65 70 75

<210> 306

<211> 293

<212> PRT

<213> Homo sapiens

<400> 306

Ala Thr Arg Gly Ala Glu Gln Asp Gly Gly Ala Ser Ala Ala Arg Pro

1	5	10	15
Arg Arg Arg	Trp Ala Gly Gly	Leu Leu Gln Arg	Ala Ala Pro Cys Ser
	20	25	30
Leu Leu Pro	Arg Leu Arg Thr	Trp Thr Ser Ser	Ser Asn Arg Ser Arg
	35	40	45
Glu Asp Ser	Trp Leu Lys Ser	Leu Phe Val Arg	Lys Val Asp Pro Arg
	50	55	60
Lys Asp Ala	His Ser Asn Leu	Leu Ala Lys Lys	Glu Thr Ser Asn Leu
	65	70	75
Tyr Lys Leu	Gln Phe His Asn	Val Lys Pro Glu	Cys Leu Glu Ala Tyr
	85	90	95
Asn Lys Ile	Cys Gln Glu Val	Leu Pro Lys Ile	His Glu Asp Lys His
	100	105	110
Tyr Pro Cys	Thr Leu Val Gly	Thr Trp Asn Thr	Trp Tyr Gly Glu Gln
	115	120	125
Asp Gln Ala	Val His Leu Trp	Arg Tyr Glu Gly	Gly Tyr Pro Ala Leu
	130	135	140
Thr Glu Val	Met Asn Lys Leu	Arg Glu Asn Lys	Glu Phe Leu Glu Phe
	145	150	155
Arg Lys Ala	Arg Ser Asp Met	Leu Leu Ser Arg	Lys Asn Gln Leu Leu
	165	170	175
Leu Glu Phe	Ser Phe Trp Asn	Glu Pro Val Pro	Arg Ser Gly Pro Asn
	180	185	190
Ile Tyr Glu	Leu Arg Ser Tyr	Gln Leu Arg Pro	Gly Thr Met Ile Glu
	195	200	205
Trp Gly Asn	Tyr Trp Ala Arg	Ala Ile Arg Phe	Arg Gln Asp Gly Asn
	210	215	220
Glu Ala Val	Gly Gly Phe Phe	Ser Gln Ile Gly	Gln Leu Tyr Met Val
	225	230	235
His His Leu	Trp Ala Tyr Arg	Asp Leu Gln Thr	Arg Glu Asp Ile Arg
	245	250	255
Asn Ala Ala	Trp His Lys His	Gly Trp Glu Glu	Leu Val Tyr Tyr Thr
	260	265	270
Val Pro Leu	Ile Gln Glu Met	Glu Ser Arg Ile	Met Ile Pro Leu Lys
	275	280	285
Thr Ser Pro	Leu Gln		
	290		

<211> 208
 <212> PRT
 <213> Homo sapiens

<400> 307

Ala	His	Arg	Asn	Ser	Thr	Ala	Leu	Leu	Glu	Gly	Arg	Gly	Leu	Gln	Trp
1				5					10					15	
Asp	His	Asp	Ser	Gly	Phe	His	Phe	Leu	Asn	Lys	Trp	Asn	Cys	Val	Ile
			20					25					30		
Tyr	Gln	Phe	Leu	Pro	Ala	Met	Phe	Val	Pro	Cys	Cys	Ile	Pro	Tyr	Val
	35						40					45			
Phe	Pro	Gly	Leu	Lys	Ile	Pro	Val	Ser	Pro	Lys	Met	Val	His	His	Val
	50					55					60				
Gln	Leu	Pro	Asn	Leu	Arg	Glu	Glu	Ser	Ser	Asp	Gly	Phe	Val	Thr	Ile
65					70					75					80
Leu	Ser	Glu	Ala	Asp	Cys	Thr	Ser	Pro	Val	Ile	Ala	Pro	Phe	Asn	His
				85					90					95	
Gly	Ser	Trp	Ser	Glu	Leu	Val	Arg	Pro	Glu	Phe	Ile	Tyr	Ile	Arg	Ser
			100					105					110		
Gly	Ser	Trp	His	Arg	Leu	Ile	Pro	Glu	Thr	Glu	Leu	Gln	Gln	Glu	Leu
			115				120					125			
Ile	Leu	Pro	Gly	Glu	Lys	His	Val	Thr	Ser	Cys	Leu	Thr	Lys	Phe	Gln
	130					135					140				
Lys	Phe	Leu	Ile	Phe	Ser	Glu	Phe	Ile	His	Asp	Phe	Cys	Glu	Gly	Trp
145					150					155					160
Ile	Ala	Ser	Phe	Ile	Pro	Pro	Glu	Val	Asp	Ser	Leu	Val	Leu	Leu	Ala
				165					170					175	
Ile	Pro	Arg	Val	Pro	Ser	Pro	His	Gln	Ser	Thr	Arg	Val	Val	Phe	Ile
			180					185					190		
Phe	Val	Asn	Leu	Trp	Gln	His	Leu	Leu	Thr	Asn	Phe	Val	Val	Cys	Phe
		195					200					205			

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<220>

<223> Description of Artificial Sequence: Partial
 cDNA sequence e.g., EST or contig S

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<210> 309
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<220>
<223> Description of Artificial Sequence: Consensus
sequence C

<400> 309
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